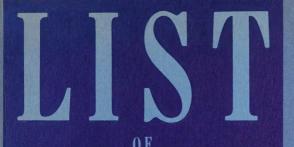
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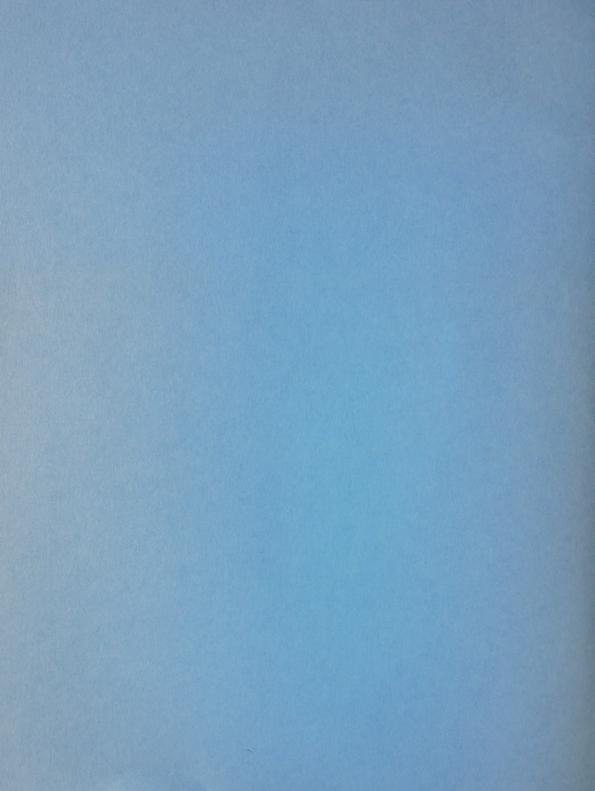
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#### GENERAL, INFORMATIONAL AND EDUCATIONAL

- Native Trees of Canada (Bulletin 61). 291 pp. A guide to identification. Descriptions, range maps and photographic illustrations of 174 species and varieties of trees. \$3.00
- Key to the Native Trees of Canada (Bulletin 125) 43 pp.
  Illustrated. Intended to identify mainly the species
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  glossary of technical terms. \$0.75
- Forest Conservation. 64 pp. Forest classification map.

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- Canada A Forest Nation. 6 pp. Leaflet. (1002). The forests have given rise to Canada's most important industry. Information regarding the annual forest harvest, number of persons employed in forest industries, value of forest production, exports of forest products, forest administration, etc.
- Christmas Tree Growing in Canada. (1041) Consolidates briefly information on all aspects of the industry as related to growing and marketing.
- Annual Reports Department of Forestry and Rural Development.
- Conservation Activities. This 29 page booklet offers instructive and interesting exercises to be carried out on field trips, hikes and camping expeditions, by school classes and youth groups such as Wolf Cubs, Brownies, Boy Scouts, Girl Guides, 4-H Clubs and others.
- These Products Come from Canada's Trees. Wall chart No. 1. For use in elementary school classrooms.
- Canada's Six Leading Commercial Softwood Trees Wall chart No. 2. For use in elementary school classrooms.

#### General, Informational and Educational Cont'd

- A Safe and Living Christmas Tree 6-page folder gives instructions on proper use of Christmas Tree.
- Bill Northwood Comic-strip character dramatizes the activities of a forest ranger in Canada.
- Catalogue of Canadian Forestry and Other Resource Films.

  This catalogue lists Canadian films regarding the many facets of forestry, forest industries and soil and water conservation.
- Administration of Crown forests in Canada. Information and Technical Services Division. (1139) 1965.
- Canada's Forests Leaflet. Tables, charts. Basic statistical information.
- The Petawawa story. Dale MacMurray. Canadian Pulp and Paper Industry, October, 1964. (sep 177).
- Federal Research in the Forests The Maritimes. 1966.
- Federal Research in the Forests Alberta and the Territories. 1968.
- Career Opportunities 6-page folder describes federal forestry employment opportunities.

# SILVICULTURE

- Partial cutting with scarification in Alberta Spruce-Aspen stands. J.C. Lees. (Sommaire en français) (1001) 1963.
- Spruce seedling mortality caused by adverse summer microclimate in the Rocky Mountains. R.J. Day. (Sommaire en français) (1003) 1963.
- Result of a 1936 release cutting to favour white spruce in a 50-year-old white spruce-aspen stand in Manitoba. G.A. Steneker. (Sommaire en français) (1005) 1963.
- Reproduction and residual stand development following cutting in red pine-jack pine stands in Manitoba. J.H. Cayford. (Sommaire en français) (1010) 1963.

- Effects of birch dieback and spruce budworm on forest development, forest section L.6, Quebec. R.J. Hatcher. (Sommaire en français) (1014) 1963.
- The effects of site on jack pine growth in Northern Ontario. Z. Chrosciewicz. (Sommaire en français) (1015) 1963.
- Some factors influencing jack pine regeneration after fire
   in Southeastern Manitoba. J.H. Cayford. (Sommaire
   en français) (1016) 1963.
- Key to the carex species of Newfoundland by vegetative characteristics. A.W.H. Damman. (Résumé en français) (1017) 1963.
- A study of black spruce forests in northern Quebec. R.J. Hatcher. (Sommaire en français) (1018) 1963.
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- Identification of black, red and white spruce seedlings.
  A. Jablanczy. (Résumé en français) (1039) 1964.
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- A test of harvest cutting methods in Alberta's spruce-aspen forest. J.C. Lees. (Sommaire en français) (1042) 1964.
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- Forest Land Classification Survey and Interpretations for management of a portion of the Niskonlith Provincial Forest, Kamloops District, B.C. P.N. Sprout, D.S. Lacate and J.W.C. Arlidge. (1159) 1966.
- Growth of tree seedlings as affected by light intensity. K.T. Logan. (1160) 1966.
- Release of white spruce from aspen competition in Alberta's spruce-aspen forest. J.C. Lees. (1163) 1966.
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- Growth and development of coniferous plantations at Grand' Mère, P.Q. G.C. Cunningham. (SRN103) 1953.
- Seed maturity in white spruce. D.I. Crossley. (SRN104) 1953.

- White and red pine, ecology, silviculture and management. K.W. Horton, G.H.D. Bedell. Queen's Printer. Price \$1.30. (Bulletin 124) 1960.
- Lodgepole pine in Alberta. L.A. Smithers. Queen's Printer. Price \$0.35. (Bulletin 127) 1961.
- Breeding of hard pine types resistant to the European pine shoot moth. M. Holst and C. Heimburger. For. Chron., Vol. 31, No. 2, June 1955 (SEP10).
- Breeding of weevil resistance in Norway spruce. M.J. Holst. (Zeitschrift fur Forstgenstik and Forstpflanzensuchtung) Frankfurt, Vol. 4. May, 1955. (SEP9).
- Artificial key to the site types of the Northeastern coniferous section boreal forest region, Quebec. A. Linteau and J. Boynton. (SEP13A).
- Checklist of the Native Trees of Canada. (SEP14).
- The Rockland red pine plantation. W.M. Stiell. Timber of Canada, April, 1957. (SEP17).
- Rapid estimate of volume in red pine plantation. W.M. Stiell. For. Chron., Vol. 33, No. 4, December, 1957. (SEP21).
- What price browsing? M.H. Drinkwater. Timber of Canada, August, 1958. (SEP27).
- Growth Mechanisms in hardwoods. D.A. Fraser, Pulp and Paper Mag. of Canada, Vol. 59, No. 10, October, 1958. (SEP28).
- Planting red spruce on ill-drained lands. J.W. McLeod, Pulp & Paper Mag. of Canada, Woodlands Review, Vol. 59 No. 10, October, 1958. (SEP29).
- A standard for spot seeding. J. Krewaz. For. Chron., Vol. 34, No. 4, December, 1958. (SEP30).
- Seasonal leader growth of lodgepole pine in the subalpine forest of Alberta. K.W. Horton. For. Chron., Vol. 34, No. 4, December, 1958. (SEP31).
- Big timber in the far North. K.W. Horton. Timber of Canada, December, 1958. (SEP32).
- Partial cutting with diameter limit control in the Lake Edward Experiment Forest Station, Quebec. (Project Q-44). 1950 to 1956. R.J. Hatcher. Pulp & Paper Mag. of Canada, Woodlands Review, Vol. 60, Convention, 1959. (SEP33).

- Result of an experiment seeding in 1920 of white spruce and jack pine in Western Manitoba. R.A. Haig. For. Chron., Vol. 35, No. 1, March, 1959. (SEP35).
- An unusual case of vegetative reproduction of white birch. R.F. Sutton. For. Chron., Vol. 35, No. 2, June, 1959. (SEP37).
- Softwoods respond to weeding. G.L. Baskerville. Pulp & Paper Mag. of Canada, Woodlands Review, Vol. 60, No. 8, August, 1959. (SEP41).
- White spruce rooting modifications on the fluvial deposits of the Lower Peace River. W.W. Jeffrey. For. Chron., Vol. 35, No. 4, December, 1959. (SEP42).
- Internal water relations of yellow birch at Chalk River.
  D.A. Fraser and H.T. Dirks. Can. Jour. of Botany,
  37, 1959. (SEP44).
- Jack pine regeneration after scattering slash on exposed mineral soil. Z. Chrosciewicz. Pulp & Paper Mag. of Canada, Woodlands Review, Vol. 61, No. 3, March, 1960. (SEP46).
- Nine years of developments in a mature mixedwood stand, Green River, New Brunswick. E.L. Hughes. For. Chron., Vol. 36, No. 1, March, 1960. (SEP47).
- Impressions of white pine forestry in the Northeastern States. K.W. Horton. Timber of Canada, May, 1960. (SEP48).
- Management of a red spruce, balsam fir and yellow birch stand - 1935 to 1959. R.J. Hatcher. Pulp & Paper Mag. of Canada, Woodlands Review, Vol. 61, No. 6, June 1960. (SEP49).
- An observation on the invasion of black spruce sites by balsam fir in Central Newfoundland. R.C. Ellis. Pulp & Paper Mag. of Canada, Woodlands Review, Vol. 61, No. 6, June, 1960. (SEP52).
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- Research by the Federal Forestry Branch in the Green River Project. G.L. Baskerville, E.L. Hughes and O.L. Loucks. For. Chron., Vol. 36, No. 3, September, 1960. (SEP56).
- Mortality in immature fir following severe budworm defoliation. G.L. Baskerville. For. Chron., Vol. 36, No. 4, December, 1960. (SEP58).
- Thinning a 50-year-old fir-spruce stand in Central New Brunswick. B.C. Wile. Pulp & Paper Mag. of Canada, Vol. 62, No. C, February, 1961. (SEP59).
- A variable quadrat regeneration survey method. A.
  Bickerstaff. For. Chron., Vol. 37, No. 1, March,
  1961. (SEP60).
- The combined stocking of multiple species combinations. A.
  Bickerstaff and L. Matte. For. Chron., Vol. 37,
  No. 1, March 1961. (SEP61).
- Who needlessly sets foot upon a worm. D.C.F. Fayle. For. Chron., Vol. 37, No. 1, March 1961. (SEP62).
- Glaze damage in red and Scots pine plantations in Southeastern Manitoba. J.H. Cayford and R.A. Haig. For. Chron., Vol. 37, No. 1, March, 1961. (SEP63).
- Is height/age a reliable index of site? A.B. Vincent. For. Chron., Vol. 37, No. 2, June, 1961. (SEP65).
- Rainfall and the width of annual rings in planted white spruce.

  Daniel Gagnon. For. Chron., Vol. 37, No. 2, June
  1961. (SEP66).
- A note on Canada's oldest white pine plantation. J.C. Mac-Arthur. Timber of Canada, June, 1961. (SEP67).
- A prairie to forest succession in Wood Buffalo Park, Alberta. W.W. Jeffrey. Ecol., Vol 42, No. 2, April, 1961. (SEP69).
- Seeding white spruce at the base of aspen. R.M. Waldron. For. Chron., Vol. 37, No. 3, September, 1961. (SEP73).
- Furrowing improves first-year survival of planted spruce on pine in Manitoba. J.H. Cayford. Tree Planter's Note No. 48,1961. (SEP74).

- Girdling, basal spraying and frilling of mature aspen. R.M. Waldron. Timber of Canada, December, 1961. (SEP75).
- A simple shelter for Six's thermometers. J.W. Fraser. For. Chron., December, 1961. (SEP77).
- Low cost regeneration of white pine. K.W. Horton. Timber of Canada, February, 1962. (SEP78).
- Rapid growth of Norway and some native spruces in New Brunswick. E.L. Hughes and O.L. Loucks. Pulp & Paper Mag. of Canada, Woodlands Review, Vol. 63, No. 3, March, 1962. (SEP79).
- Development of hydromorphic humus podzols and some notes on the classification of podzols in general. A.W.H. Damman. The Journal of Soil Science, Vol. 13, No. 1, March, 1962. (SEP82).
- A forest classification for the Maritimes Provinces. O.L. Loucks. The Proceedings of the Nova Scotian Institute of Science, Vol. 25, Part 2, 1959-60, April, 1962. (SEP83).
- The use of soil survey reports in the appraisal of forest land productivity in Alberta. P.J.B. Duffy. For. Chron., Vol. 38, No. 2, June, 1962. (SEP85).
- Ordinating forest communities by means of environmental scalars and phytosociological indices. O.L. Loucks. Ecological Monographs. 32: 137-166, Spring, 1962. (SEP86).
- Aluminum foil as a wrapper for plant and soil samples. P.J. Rennie. Chemistry and Industry, July 21, 1962. (SEP87).
- A pre-felling treatment to prevent sprouting of red maple. H.J. MacGillivray. For. Chron., Vol. 38, No. 3, September, 1962. (SEP89).
- Twenty years of growth of debudded red pine. A.B. Berry. For. Chron., Vol. 38, No. 3, September, 1962. (SEP90).
- A preliminary study of aerial volume-table construction for lodgepole pine in West-Central Alberta. P.J.B. Duffy and M.P. Meyer. For. Chron. Vol. 38, No. 2, June, 1962. (SEP91).

- Methods of assessing forest site capacity. P.J. Rennie.
  International Soil Conference. New Zealand. 1962.
  (SEP93).
- Soil, site and land classification. J.S. Rowe. For. Chron., Vol. 38, No. 4, December, 1962. (SEP97).
- Effects of mechanized logging on the composition of a balsam fir stand in the Gaspe Peninsula. J.D.

  McArthur. Woodlands Review Section, Pulp and Paper Mag. of Canada, April, 1963. (SEP98).
- Conflicts in the use of forest land in the Atlantic Provinces. H.D. Heaney. For. Chron., Vol. 39, No. 1, March 1963. (SEP99).
- The Green River Project. H.D. Heaney. The Atlantic Advocate. (SEP101).
- Soil temperature measurements in forests of northwestern Canada. W.W. Jeffrey. Ecology, Vol. 44, No. 1, Winter, 1963. (SEP102).
- Involutions in surficial deposits, Northwestern Ontario. R.F. Sutton. The Geological Society of America Bulletin. Vol. 74, No. 6, June, 1963. (SEP103).
- Furrowing and sheltering to improve early survival of planted red pine on dry sites, Northeastern Manitoba. J.H. Cayford and J.M. Jarvis. Tree Planters' Note No. 59. 1963. (SEP105).
- A preliminary study to assess competition in a white sprucetrembling aspen stand. G.A. Steneker and J.M. Jarvis. For. Chron., Vol. 39, No. 3, September, 1963. (SEP106).
- Objective measure of thinning grades and methods. P.E. Vézina. For. Chron., Vol. 39, No. 3, September, 1963. (SEP107).
- Weekly radial increment of balsam fir in Quebec as related to McLintock's tree classification. J.D. Gagnon. For. Chron., Vol. 39, No. 3, September, 1963. (SEP108).
- Influences of microclimates on mortality and growth of planted white spruce, jack pine and white pine. L.B.
  MacHattie and K.W. Horton. For. Chron., Vol. 39, No. 3,
  September 1963. (SEP109).

- August-November seed and litter fall in a mature white spruce stand. R.M. Waldron. For. Chron., Vol. 39, No. 3, September 1963. (SEP110).
- Winter injury of lodgepole pine foliage. L.B. MacHattie, Weather Magazine, London, S.W. 7, England. (SEP111).
- More about the crown competition factor. P.E. Vézina. For. Chron., September 1963. Vol. 39, No. 3. (SEP113).
- The field performance of ten Bellani radiation integrators.
  P.E. Vézina. For. Chron., December 1963, Vol. 39,
  No. 4, (SEP114).
- Black spruce seedfall immediately following a fire. W.C. Wilton. For. Chron., December 1963, Vol. 39, No. 4, (SEP115).
- Low temperature germination of some Eastern Canadian tree seed. J.D. MacArthur and J.W. Fraser. For. Chron., December 1963, Vol. 39, No. 4. (SEP116).
- Regeneration trials with jack pine on clay soils in Manitoba. J.H. Cayford and R.M. Waldron. For. Chron., December 1963, Vol. 39, No. 4. (SEP117).
- Developing an ideal growing stock for tolerant hardwoods in Central Ontario. A.B. Berry. For. Chron., December 1963, Vol. 39, No. 4. (SEP118).
- Forestry considerations in Canadian land-use planning. A. Bickerstaff. For. Chron., December 1963, Vol. 39, No. 4, (SEP119).
- Notes on food habits of small mammals of the white spruce forest. J.W. Bruce Wagg. For. Chron., December 1963, Vol. 39, No. 4. (SEP120).
- Field planting trials in the Clay Belt Quebec. J.D.

  MacArthur. Woodlands Review Section, Pulp and Paper
  Mag. of Canada, Convention issue, 1964. (SEP122)
- Histochemical studies of enzyme distribution of the shoottips of white spruce. W.H. Vanden Born. Canadian Journ. of Botany, 41, 1509 (1963). (SEP123).
- Design of small mammal exclosures for forest seeding studies. J.W. Bruce Wagg. Ecology, Vol. 45, No. 1, Winter 1964. (SEP124).

- Black spruce transplants unharmed by overdosage with mineral spirits. J.D. MacArthur. Tree Planters' Notes, No. 64, April 1964. (SEP125).
- Total growth of the aerial parts of a white spruce tree at Chalk River, Ontario, Canada. D.A. Fraser, L. Bélanger, D. McGuire and Z. Zdrazil. Can. Jour. of Botany 42, 159 (1964). (SEP126).
- Effect of strip width on proportion of daily light reaching the ground. A.B. Berry. For. Chron., March 1964, Vol. 40, No. 1. (SEP127).
- Layering habit of the sugar maple. D.C.F. Fayle. For. Chron., March 1964, Vol. 40, No. 1. (SEP128).
- Red pine seedfall in Southern Manitoba. J.H. Cayford. For. Chron., March 1964, Vol. 40, No. 1. (SEP129).
- Layering of lodgepole pine in a Quebec plantation. J.D.

  MacArthur. For. Chron., March 1964, Vol. 40, No. 1,

  (SEP130).
- Viability of white spruce seed from squirrel-cut cones. J.W.B. Wagg. For. Chron., March 1964, Vol. 40, No. 1. (SEP131).
- Does tyrosine increase tree growth and resistance to frost?
  J.D. Gagnon. Nature, Vol. 202, No. 4932, pp. 619-620,
  May 9, 1964. (SEP133).
- The effect of preplanting ground treatment on early survival and growth of planted white spruce. R.M. Waldron, Tree Planter's Notes No. 65. (SEP134).
- Tolerance of white spruce seedlings to flooding. J.C. Lees, For. Chron., June 1964, Vol. 40, No. 2. (SEP137).
- Relationship between site index and foliage nitrogen at two crown levels for mature black spruce. J.D. Gagnon. For. Chron., Vol. 40, No. 2. (SEP138).
- Balsam fir advance growth after cutting in Quebec. R.J. Hatcher. For. Chron., March 1964, Vol. 40, No. 1. (SEP139).
- A simple technique for age determination in trembling aspen.
  J.S. Maini and R.T. Coupland. For. Chron., June 1964,
  Vol. 40, No. 2. (SEP140).

- A practical thermocouple shield. Gy. Pech. For. Chron. June 1964, Vol. 40, No. 2. (SEP143).
- Solar radiation over a snow pack in a dense pine forest. P.E. Vézina. Agric. Meteo. 1(1964) 54-65. (SEP145).
- Introgressive hybridization in red and black spruce. E.K.

  Morgenstern and J.L. Farrar. Univ. of Toronto.

  Faculty of Forestry, Tech. Report No. 4, 1964.

  (SEP146).
- Environmental preconditioning with special reference to forestry. J. Stan Rowe. Ecology, Vol. 45, No. 2, Spring 1964. (SEP147).
- Efficiency of various shakers in the particle-size analysis of soils. G.J. Lemieux. (Sommaire en français). Canadian Journal of Soil Science 44, 228-231, June, 1964. (SEP148).
- Deer prefer jack pine. K.W. Horton. Journal of Forestry, Vol. 62, No. 7, July 1964. (SEP150).
- Scarifying and screefing for regeneration. K.W. Horton. Canada Lumberman, January 1964. (SEP152).
- Planting methods to overcome strong competition from dense, herbaceous vegetation. J.D. MacArthur. Tree Planters' Notes, No. 66, (SEP154).
- Growth of Douglas fir planted on Prince Edward Island. E.B. Peterson. For. Chron., September 1964, Vol. 40, No. 3. (SEP155).
- The influence of stand density on the correlation of stem diameter with crown width and height for lodgepole pine. G.M. Bonnor. For. Chron., September 1964, Vol. 40, No. 3. (SEP156).
- Comparative growth of black spruce seedlings and layers under an alder canopy. A.B. Vincent. Woodlands review section, Pulp and Paper Magazine of Canada. September, 1964. (SEP157).
- A time study in pruning plantation white spruce and red pine. A.B. Berry. For. Chron., March 1964, Vol. 40, No. 1. (SEP158).

- Derivation of thinning regimes through use of a model for balsam fir in Quebec. P.E. Vézina (Résumé en français). For. Chron., September, 1964, Vol. 40, No. 3, (SEP159).
- Height growth losses due to animal feeding in douglas fir plantations, Vancouver Island, B.C. K.J. Mitchell. (Sommaire en français). For. Chron., September 1964, Vol. 40. No. 3. (SEP161).
- The impact of mechanical logging on silviculture in Canada. L.A. Smithers. Department of Forestry, Canada. (SEP164).
- Photo interpretation and forest land classification. M. Jurdant. Woodlands Review section, Pulp and Paper Magazine of Canada, October 1964. (SEP165).
- Effect of depth to water table on height growth of tree seedlings in a greenhouse. D. Mueller-Dombois, Forest Science, Vol. 10, No. 3, September 1964. (SEP166).
- Some forest types of Central Newfoundland and their relation to environmental factors. A.W.H. Damman. Forest Science Monograph, No. 8. (SEP170).
- Cutting classes in forest management. R.G. Ray. For. Chron., December 1964, Vol. 40, No. 4. (SEP171).
- Growth and numbers of speckled alder following logging of black spruce peatlands. A.B. Vincent. For. Chron., December 1964, Vol. 4Q No. 4. (SEP172).
- The potential influence of soil splashing by raindrops on seedling survival. John R. Clements. For. Chron., December 1964, Vol. 40, No. 4. (SEP173).
- An analysis of measures of density in even-aged balsam fir and jack pine stands. P.E. Vézina. (Sommaire en français). For. Chron., December, 1964, Vol. 40, No. 4. (SEP174).
- The forest habitat types of Southeastern Manitoba and their application to forest management. D. Mueller-Dombois. Canadian Journal of Botany, 42, 1417, (1964). (SEP177).
- Some interesting plant records from the Chalk River district, Ontario. T.C. Brayshaw. The Canadian Field-Naturalist, Vol. 78, No. 3, pages 150-154, July-September, 1964. (SEP178).

- Solar radiation beneath conifer canopies in relation to crown closure. P.E. Vézina and Gy. Péch. Forest Science, Vol. 10, No. 4, December 1964, (SEP179).
- An inexpensive material for lining soil trenches. J.R. Clements, Can. Journal of Soil Science, Feb. 1965. (SEP181).
- A mechanical forest seeding technique. K.W. Horton and J.F. Flowers. 1965. (SEP182).
- Stand improvement with white spruce planted with concurrent dybar (Fenuron) herbicide treatment. R.F. Sutton. For. Chron. Vol. 41, No. 1, March, 1965. (SEP183).
- Seedbed, canopy and moisture effects on growth of yellow birch seedlings. B.S.P. Wang. Forestry chronicle, Vol. 41, No. 1, March, 1965. (SEP184).
- Five years growth of thinned white spruce plantations. W.M. Stiell. Woodlands Review Section, Pulp and Paper Mag. of Canada, April, 1964. (SEP186).
- Some interrelationships of silviculture and logging. G.L.

  Baskerville. Woodlands Review Section, Pulp and
  Paper Mag. of Canada. June 1965. (SEP188).
- The effect of light and temperature on the germination of jack pine and lodgepole pine seeds. R.F. Ackerman and J.L. Farrar. Reprinted from Faculty of Forestry, University of Toronto, Technical Report No. 5, 1965. (SEP189).
- Multiple jack pine seedlings. J.H. Cayford and R.M. Waldron. Canadian Journal of Botany, 43, 481, 1965. (SEP191).
- Dry matter production in immature balsam fir stands. G.L.

  Baskerville. Forest Science Monograph No. 9. 1965.
  (SEP192).
- Height sampling in red pine and white spruce plantations. W.M. Stiell. Forestry Chronicle, June 1965, Vol. 41, No. 2. (SEP193).
- Eco-geographic criteria for mapping forest habitats in Southeastern Manitoba. D. Mueller-Dombois. For. Chron., Vol. 41, No. 2, June, 1965. (SEP196).

- Cone production and seedfall in a mature white spruce stand. R.M. Waldron. For. Chron., Vol. 41, No. 3, 1965. (SEP197).
- Effect of magnesium and potassium fertilization on a 20year-old red pine plantation. J.D. Gagnon. For. Chron., Vol. 41, No. 3, 1965. (SEP198).
- Growth habits of mountain maple in the Ontario clay belt. A.B. Vincent. For. Chron., Vol. 41, No. 3, 1965. (SEP200).
- Techniques for studying soil-water growth relations on an artificial slope. D. Mueller-Dombois. Paper presented at the second North American forest soils conference. Corvallis, Oregon. 1963. (SEP202).
- A co-operative study of the classification of forest land.
  R.H. Spilsbury et al. Paper presented at the second
  North American forest soils Conf., Corvallis, 1963.
  (SEP203).
- Relation of jack pine height-growth to site in the mixedwood forest section of Saskatchewan. J.S. Jameson. Paper presented at the second North American forest soils conference, Corvallis, Oregon, 1963. (SEP204).
- Soil-vegetation relationships in the Northern hardwoods of Quebec. G.L. Lemieux. Paper presented at the second American forest soils Conf., Corvallis, Oregon, 1963. (SEP205).
- Experimental watersheds in the Rocky Mountains Alberta, Canada. W.W. Jeffrey. Reprint from publication No. 66 "Symposium of Budapest" of the International Assoc. of Scientific Hydrology, October, 1965. (SEP207).
- A note on the polar transport of exogenous auxin in woody root cuttings. D.C.F. Fayle and J.L. Farrar. Canadian Journal of Botany, Vol. 43, 1965. (SEP208).
- Nitrogen defiency in the York River burn, Gaspé, Quebec. J.D. Gagnon. Plant and soil Vol. XXIII, No. 1. 1965. (SEP209).
- Development of white spruce and alpine fir seedings on cutover areas in the Central Interior of British Columbia. S. Eis. For. Chron., Vol. 41, No. 4, 1965. (SEP211).

- Relation between cone production and diameter increment of Douglas fir (Pseudotsuga Menziesii (Mirb.) Franco), Grand Fir (Abies Grandis (Dougl.) Lindl.), and Western white pine (Pinus Monticola Dougl.). S. Eis, E.H. Garman and L.F. Ebell. Jour. of Botany, 43, 1553, 1965. (SEP212).
- The status of the black cottonwood (populus trichocarpa Torrey and Gray). T.C. Brayshaw. The Can. Field-Naturalist, Vol. 79, No. 2, 1965. (SEP213).
- Mechanical pulpwood logging and regeneration. K.W. Horton.
  Woodlands Review Section, Pulp and Paper Mag. of Can.,
  November 1965. (SEP215).
- Method of pH determination and seasonal pH fluctuations in Quebec forest humus. P.E. Vézina. Ecology, Vol. 46, No. 5. 1965. (SEP217).
- Direct seeding in Eastern Canada. L.A. Smithers. Proceedings of the symposium on direct seeding in the Northeast. 1965. (SEP218).
- Inhibition of black spruce primary roots by a watersoluble substance in <u>Kalmia Angustifolia</u>. E.B. Peterson. Forest Science, Vol. 11, No. 4, December 1965. (SEP220).
- The distribution patterns of northern and southern elements in the flora of Newfoundland. A.W.H. Damman. Rhodora, Vol. 67, No. 772, 1965. (SEP224).
- Determination of nitrogen in woody tissue. P.J. Rennie, Journal of the Science of Food and Agriculture, Vol. 16, No. 11, 1965. (SEP226).
- Estimation of dry weight of tree components and total standing crop in conifer stands. G.L. Baskerville. Ecology, Vol. 46, No. 6, Autumn, 1965. (SEP227).
- Silviculture, logging and money. G.L. Baskerville. Woodlands Review Section, Pulp and Paper Mag of Canada, February, 1966. (SEP229).
- Weight and size distribution of slash of white spruce and lodgepole pine. A.D. Kill. Reprinted from the Forestry Chronicle, Vol. 41, No. 4, 1965. (SEP230).

- Disc electrophoresis of soluble protein in the female gametephyte and embryo of conifer seed. D.J. Durzan. Reprinted from Canadian Journal of Botany, Vol. 44, 1966. (SEP231).
- Dry-matter production in immature balsam fir stands: roots, lesser vegetation, and total stand. G.L. Baskerville. Reprinted from Forest Science, Vol. 12, No. 1, March 1966. (SEP235).
- Vegetative and reproductive growth of black spruce (<u>Picea mariana</u> (Mill.) BSP.) at Chalk River, Ontario, Canada. D.A. Fraser. Reprinted from Canadian Journal of Botany, Vol. 44, 1966. (SEP237).
- The use of micropedology in the study of some Ontario podzolic profiles. P.J. Rennie. Reprinted from Journal of Soil Science, Vol. 17, No. 1, March 1966. (SEP238).
- Apical growth of <u>Populus</u> Spp. 1. Sequential pattern of internode, bud and branch length of young individuals.

  J.S. Maini. Reprinted from Canadian Journal of Botany, Vol. 44, 1966. (SEP240).
- International training course on the use of radioisotopes and radiation in forestry research. D.A. Fraser and E.E. Gaertner. Reprinted from the Forestry Chronicle, Vol. 42, No. 2, June 1966. (SEP241).
- A bear-proof raingauge for wildland watersheds. Chas. R. Stanton. Reprinted from the Forestry Chronicle, Vol. 42, No. 2, June 1966. (SEP242).
- Forest resources of the world and their implications. Dr. L.Z. Rousseau. Reprinted from Woodlands Review Section, Pulp and Paper Magazine of Canada, September 1965. (SEP243).
- A forest-sampling procedure for nutrient-uptake studies. P.J. Rennie. Reprinted from Commonwealth Forestry Review, Vol. 45, (2), No. 124, June 1966. (SEP244).
- Aerial spraying with 2,4-D to eliminate trembling aspen.
  R.H.M. Pratt. Reprinted from Woodlands Review Section,
  Pulp and Paper Magazine of Canada, Vol. 67(9),
  September 1966. (SEP247).

- Highlights of 1965 forestry. A. Bickerstaff. Reprinted from Woodlands Review Section, Pulp and Paper Magazine of Canada, September 1966. (SEP248).
- Resin canal position in the needles of balsam, alpine and fraser firs. Kalman J. Roller. Reprinted from Forest Science, Vol. 12, No. 3, September 1966. (SEP249).
- Solar radiation in a forest clearing. John R. Clements. Reprinted from Weather, Vol. 21, No. 9, September 1966. (SEP250).
- Profitability of pruning white pine. K.W. Horton. Reprinted from the Forestry Chronicle, Vol. 42, No. 3, September 1966. (SEP251).
- Development of a white pine underplantation in thinned and unthinned aspen. John R. Clements. Reprinted from the Forestry Chronicle, Vol. 42, No. 3, September 1966. (SEP252).
- Vegetative propagation of populus SPP. J.S. Maini and K.W. Horton. Reprinted from Canadian Journal of Botany, Vol. 44, 1966. (SEP254).
- Survival and growth of white spruce wildlings and coastal nursery seedlings in the interior of British Columbia. S. Eis. Reprinted from the Forestry Chronicle, Vol. 42, No. 4, December 1966. (SEP256).
- Hemlock and larch dwarf mistletoe seed dispersal. Richard B. Smith. Reprinted from the Forestry Chronicle, Vol 42, No. 4, December 1966. (SEP257).
- Radial shrinkage and swelling of increment cores. L.G. Brace. Reprinted from the Forestry Chronicle, Vol. 42, No. 4, December 1966. (SEP258).
- Apical growth of <u>Populus</u> SPP. 11. Relative growth potential of apical and lateral buds. J.S. Maini. Reprinted from Canadian Journal of Botany, Vol. 44, 1966. (SEP259).
- Yellow Birch regeneration on scarified seedbeds under small canopy openings. R.J. Hatcher. Reprinted from the

- Forestry Chronicle, Vol. 42, No. 4, December 1966. (SEP260).
- Storage of white spruce, jack pine and red pine seed treated with arasan, endrin and aluminum flakes.

  J.H. Cayford and R.M. Waldron. Reprinted from "Tree Planters Notes" No. 77, August 1966. (SEP262).
- The spectral composition of near ultraviolet and visible radiation beneath forest canopies. P.E. Vézina and D.W.K. Boulter. Reprinted from Canadian Journal of Botany, Vol. 44, 1966. (SEP263).
- Free amino-acid content in needles of abies balsamea and Picea mariana growing on different sites. J.D. Gagnon. Reprinted from Nature, Vol. 212, No. 5064, November 1966. (SEP264).
- The names of yellow birch and two of its varieties. T.C.

  Brayshaw. Reprinted in Canada from the Canadian
  Field Naturalist, Vol. 80, No. 3, July-September
  1966. (SEP265).
- Mound and pit microrelief in relation to soil disturbance and tree distribution in New Brunswick, Canada. W.H. Lyford and D.W. MacLean, Harvard Forest Paper, No. 15, 1966. (SEP266).
- Response of three grasses to two soils and a water table depth gradient. D. Mueller-Dombois and H.P. Sims. Reprinted from Ecology, Vol. 47, No. 4, Summer 1966. (SEP267).
- The water cycle over a 16-year period on several forest sites at Chalk River, Ontario, Canada. D.A. Fraser.

  Reprinted from International Symposium on FOREST HYDROLOGY, Aug 29 Sept 10, 1965. (SEP269).
- Forest hydrology research in Canada. W.W. Jeffrey.
  Reprinted from International Symposium on FOREST
  HYDROLOGY, Aug 29 Sept 10, 1965. (SEP270).
- What are the blue birches? T.C. Brayshaw. Reprinted in Canada from the Canadian Field-Naturalist, Vol. 80, No. 4, Oct-Dec. 1966. (SEP271).
- The nitrogen metabolism of Picea Glauca. (Moench) Vss and Pinus Banksiana Lamk, as influenced by mineral nutrition. D.J. Durzan and F.C. Stuward. Reprinted

- from the Canadian Journal of Botany, Vol. 45 (1967) (SEP276).
- Red and Norway Spruce underplanting in a tolerant hardwood stand in Quebec. G.H. Winget and J.D. MacArthur. Reprinted from Woodlands Review Section, Pulp and Paper Magazine of Canada, April 1967. (SEP277).
- Logging damage to Black Spruce and Balsam Fir reproduction. A.B. Vincent and V.F. Haavisto. Reprinted from Woodlands Review, June 1967. (SEP278).
- Dybar (fenuron) a silviculturally underrated brush killer. R.F. Sutton. Reprinted from Woodlands Review Section, Pulp and Paper Magazine of Canada, March 1967. (SEP280).
- Fertilizing with ammonium nitrate improves red pine seed production. J.H. Cayford and J.M. Jarvis. Reprinted from the Journal of Forestry, Vol. 65, No. 6, June 1967. (SEP282).
- Twin seedlings and abnormal germination in the yellow birch, betula alleghaniensis britton. J.S. Maini and B.S.P. Wang. Reprinted from the Canadian Field-Naturalist, Vol. 81, No. 2, pp. 128-134, April-June, 1967. (SEP283).
- The effect of phosphamidon on bird population in jack pine stands in Quebec. John A. McLeod. Reprinted from the Canadian Field Naturalist, Vol. 81, No. 2, pp. 102-106. April-June 1967. (SEP284).
- Improved germination of white spruce seed by increasing
   moisture content with absorptive powders. R.M.
   Waldron and J.H. Cayford. Reprinted from the
   Forestry Chronicle, June 1967, Vol. 43, No. 2. (SEP285).
- Establishment and early development of white spruce in the interior of British Columbia. S. Eis. Reprinted from the Forestry Chronicle, June 1967, Vol. 43, No. 2. (SEP286).
- Effects of partial cutting, clear-cutting & seedbed treatment on growth & regeneration in black spruce stands in Manitoba. J.M. Jarvis and J.H. Cayford. Reprinted in Canada from Woodlands Review, August 1967. (SEP288).

- Influence of root pruning on height increment & root development of outplanted spruce. R.F. Sutton.
  Reprinted from Canadian Journal of Botany, 45, 1671, (1967). (SEP289).
- An analysis of dry matter production of douglas-fir seedlings in relation to temperature & light intensity. Holger Brix. Reprinted from Canadian Journal of Botany, Vol. 45 (1967). (SEP293).
- Biogeography of jack pine. C.W. Yeatman. Reprinted from Canadian Journal of Botany, Vol. 45 (1967). (SEP294).
- Effect of soil & air temperature on solubles sugars & growth of white spruce (Picea glauca) seedlings. V. Chalupa and D.A. Fraser. Reprinted from the Canadian Journal of Botany, 46,65 (1968). (SEP295).
- High total productivity of a young aspen stand in Manitoba. I. E. Bella and J.M. Jarvis. Reprinted from Woodlands Review, Oct. 1967. (SEP296).
- Response of balsam fir and red spruce to release from hardwood competition. R.J. Hatcher. Reprinted in Canada from Woodlands Review, June 1967. (SEP297).
- Selectivity of herbicides. R.F. Sutton. Reprinted from the Forestry Chronicle, Sept. 1967, Vol. 43, No. 3. (SEP300).
- Cone crops of white and black spruce are predictable. S. Eis. Reprinted from the Forestry Chronicle, Sept. 1967, Vol. 43, No. 3. (SEP301).
- Spraying too early damages pine plantations. N.R. Walker.
  Reprinted from the Forestry Chronicle, Sept. 1967,
  Vol. 43, No. 3. (SEP302).
- Technical notes V gauge. I.E. Bella. Reprinted from the Forestry Chronicle, February 1968. (SEP303).
- Renewed growth of ectotrophic mycorrhizae as an indication of an unstable symbiotic relationship. V. Slankis. XIV. IUFRO-KONGRESS SECTION 24 MUNCHEN 1967. (SEP305).

- Periodicity of height growth in white spruce reproduction.

  A.K. Hellum. Reprinted from the Forestry Chronicle,

  Dec. 1967, Vol. 43, No. 4. (SEP306).
- Effects of captan on the germination of white spruce, jack and red pine seed. J.H. Cayford and R.M. Waldron. Reprinted from the Forestry Chronicle, Dec. 1967, Vol. 43, No. 4. (SEP307).
- A revision of the genera of the hypodermataceas. G.D. Barker. Can. Journal of Botany, Vol. 45 (1967). (SEP308).
- Microarthropods from two Quebec woodland humus forms. 11.
  The collembola. Valin G. Marshall. Extrait des
  ANN. SCC. ENT. Vol. 12, No. 3, pp. 166-181, Sept.
  1967. (SEP309).
- An approach to simultaneous tolerance intervals in regression.

  A.L. Wilson. Reprinted from the Annals of Mathematical Statistics, Vol. 38, No. 5, Oct. 1967. (SEP311).
- Free sugars, amino acids, & soluble proteins in the embryo and female gametophyte of jack pine as related to climate at the seed source. D.J. Durzan and V. Chalupa. Reprinted from Canadian Journal of Botany, Vol. 46, 1968. (SEP312).
- Influence of planting depth on early growth of conifers.
  R.F. Sutton. Reprinted from the Commonwealth Forestry
  Review, Vol. 46(4), No. 130, Dec. 1967. (SEP313).

### ENTOMOLOGY

- Douglas-fir cone insect and their control. A.F. Hedlin and N.E. Johnson. (1168) 1967.
- The role of introduced parasites in the control of the winter moth in Nova Scotia. D.G. Embree. Canadian Entomologist 98: 1159-1168. 1966. (No: T-14).
- Evidence of DDT resistance in populations of spruce budworm, Choristoneura fumiferana (Clem.) from DDT-sprayed areas of New Brunswick. A.P. Randall. Can. Entomol. 97: 1281-1292. 1965. (No: 1165).

#### Entomology Cont'd

- The biology of the mountain ash sawfly, <u>Pristiphora geniculata</u> (Htg.) (Hymenoptera Tenthredinidae) in eastern Canada. R.S. Forbes and L. Daviault. Can. Entomol. 118-1133. 1964. (No. 1025).
- The distribution of termites in Ontario after 25 years. C.S. Kirby. Can. Entomol. 97:310-314. 1965. (No. 1108).
- History of larch sawfly outbreaks and their effect on tamarack stands in Manitoba and Saskatchewan. L.D. Nairn, W.A. Reeks, F.E. Webb and V. Hildahl. Can. Entomol. 94:245-255. 1962. (No: 758).
- Forest Lepidoptera of Canada Vol. 2. Nycteolidae to Liparidae. R.M. Prentice, comp. Bull. 128. Dept. Forestry, Ottawa 1962.
- Forest Lepidoptera of Canada Vol. 3. Lasiocampidae to Geometridae. R.M. Prentice, comp. Dept. Forestry Publ. 1013. 1963.
- Forest Lepidoptera of Canada Vol. 4. Microlepidoptera. R.M. Prentice, comp. Dept. Forestry Publ. 1142. 1965.
- A review of insects affecting regeneration and plantations in British Columbia. G.T. Silver. Bi-Monthly Progress Report 18(6). 1962.
- Canadian participation in insect pathology. T.A. Angus. Can. Ent. 96:231-241. 1964. (I.P.R.I. No: 52).
- Notes on the Biology of the Engelmann Spruce Weevil, Pissodes Engelmanni (curculionidae:Coleoptera) and its Parasites and Predators by Robert E. Stevenson. Reprinted in Canada from the CANADIAN ENTOMOLOGIST Vol. 99, No. 2, Feb. 1967.
- An extraction method for rapid counts of insect eggs and small organisms. S.F. Condrashoff. Reprinted in Canada from the CANADIAN ENTOMOLOGIST Vol. 99, No. 3, March 1967.
- Biology and initial dispersal of Olesicampe (Holocremnus) Sp. Nr. Nematorum (Hymenoptera:Ichneumonidae), a parasite of the larch sawfly recently established in Manitoba. J.A. Muldrew. Reprinted in Canada from the CANADIAN ENTOMOLOGIST Vol. 99, No. 3, March 1967.

#### Entomology Cont'd

- The poplar-and-willow borer, Sternochetus (= Cryptorhynchus)
  Laphati Coleoptera:Curculionidae), in British Columbia.
  John W.E. Harris and Harry C. Coppel. Reprinted in
  Canada from the CANADIAN ENTOMOLOGIST, Vol. 99, No. 4,
  April 1967.
- Scleroderris Lagerbergii gremmen, a new threat to nurseries in Northern Ontario. David Punter. Reprinted from the Forestry Chronicle, June 1967, Vol. 43, No. 2.
- Guide to the geometridae of Canada (Lepidoptera). W.C.

  McGuffin. Published by the Entomological Society of
  Canada, Ottawa, 1967.
- The larch sawfly in the northern transitional forest of Central Canada. W.J. Turnock and B.B. McLeod. Reprinted from Proceedings Entomological Society of Manitoba 22 (1966): 55-60.
- The European pine shoot moth, Rhy Acionia Buoliana (Lepidoptera: Olethreutidae), another introduced forest pest. J.W.E. Harris and R.O. Wood. Reprinted from Journal of the Entomological Society of British Columbia, Vol. 64 (1967), August 1, 1967.
- Cone insects of grand fir, Abies Grandis (Douglas) Lindley, in British Columbia. A.F. Hedlin. Reprinted from Journal of the Entomological Society of British Columbia, Vol. 64 (1967), August 1, 1967.
- Ants, aphids, & jack pine in Manitoba. G.A. Bradley and J.D. Hinks. Reprinted in Canada from the CANADIAN ENTOMOLOGIST, Vol. 100, No. 1, January 1968.
- Studies on the sitka spruce weevil, Pissodes Sitchensis, in British Columbia. G.T. Silver. Reprinted in Canada from the CANADIAN ENTOMOLOGIST, Vol. 100, No. 1, Jan. 1968.

# PATHOLOGY

Mortality caused by Armillaria root rot, Peridermium rusts, and other destructive agents in lodgepole pine regeneration. J.A. Baranyay, and G.R. Stevenson. Forestry Chron. 40:350-361. 1964. (No. 1032).

#### Pathology Cont'd

- Aerial survey of dying balsam fir in northern Ontario using an operation recorder. L.M. Gardiner and D.O. Prielipp. Forestry Chron. 40:519-533. 1964. (No. 1065).
- Dutch elm disease. A.G. Davidson, comp. Dept. of Forestry and Rural Development Publ. 1187.
- Annual report of the forest insect and disease survey 1967.

  Dept. of Forestry and Rural Development Publ. 1968.
- Studies on the organisms associated with "snow-blight" of conifers in North America. J. Reid and R.F. Cain. I. A new genus of Helotiales. Mycologia 54:194-200. 1962.
- Heart rot of jack pine in Ontario. J.T. Basham. II. Laboratory studies on the pathogenicity and interrelationships of the principal heartwood-inhabiting fungi. Can. J. Botany 44: 849-860. 1966.
- Damage to eastern white pine by sulphur-dioxide, semimaturetissue needle blight, and ozone. S.N. Linzon. Journal of the Air Pollution Control Assoc. Vol. 16: 140-144. 1966.
- Relation of early cambial activity in white elm and infection by Ceratocystis ulmi (Buis). Rene Pomerleau. C. Moreau. Can. J. Botany 44: 109-110. 1966. (No. R-1).
- Woodwasps (Siricidae) in conifers and the associated fungus, <u>Stereum chailletii</u>, in eastern Canada. M.A. Stillwell. Forest Sci. 12: 121-128. 1966. (No. 1178).
- Atropellis canker of lodgepole pine: etiology, symptoms, and canker development rates. J.C. Hopkins. Can. J. Bot. 41: 1535-1545. 1963. (No. 962).
- Cull studies, the defects and associated basidiomycete fungi in the heartwood of living trees in the forests of Ontario. J.T. Basham, and Z.J.R. Morawski. Can. Dept. Forestry Publ. 1072. 1964. (No. 1043).
- Infection of balsam fir, <u>Abies balsamea</u> (L.) Mill., by <u>Stereum sanquinolentum</u> (Alb. & Schw. ex. Fr.) Fr. <u>In</u> Trans. D.E. Etheridge. Royal Soc. Can. 4th Series, Vol. 1: 357-360. 1963. (No. 941).

### Pathology Cont'd

- Studies on white pine phenols in relation to blister rust.
  M.G. Boyer. Can. J. Botany 42: 979-987. 1964. (No. 1036).
- New facts on host-parasite relationships in the Hypoxylon canker of aspen. Martin Hubbes. Can. J. Botany 42: 1489-1494. 1964. (No. 1099).
- Fungus deterioration of balsam fir killed by spruce budworm in northwestern New Brunswick. M.A. Stillwell and D.J. Kelly. Forestry Chron. 40: 482-487. 1964. (No. 1080).
- Sulphur dioxide injury to trees in the vicinity of petroleum refineries. S.N. Linzon. Forestry Chron. 41: 245-247. 1965. (No. 1167).
- The occurrence of fungi and bacteria in normal and discolored heartwood of second-growth sugar maple in Ontario.

  J.T. Basham and L. David Taylor. Plant disease Reptr.
  49: 771-774. 1965. (No. 1176).
- Notes on Hypoxylon canker of aspen in Alberta. J.A. Baranyay. Reprinted from the Forestry Chronicle, Dec. 1967, Vol. 43, No. 4.
- Use of phytoactin in the treatment of rhabdocline needle-cast disease of douglas-fir. L.C. Weir and A.L.S. Johnson. Extrait de Phytoprotection, Vol. 48, No. 2, pp. 74-77, June 1967.
- Field tests for control of red pine seedling diseases. Jack R. Sutherland. Extrait de Phytoprotection, Vol. 48, No. 2, pages 58-67, June 1967.
- Heart rot of jack pine in Ontario. III. Decay relationships and their effects on management. J.T. Basham. Reprinted from the Forestry Chronicle, Sept. 1967, Vol. 43, No. 3.
- Ozone damage and semimature-tissue needle blight of eastern white pine. S.N. Linzon. Reprinted from Canadian Journal of Botany, Vol. 45 (1967).
- Reactions of lodgepole pine to attack by Dendroctenus Ponderosae hopkins and blue stain fungi. W.R. Reid, H.S. Whitney and J.A. Watson. Can. Journal of Botany, Vol. 45 (1967).

## FOREST PRODUCTS RESEARCH

\*- An asterisk denotes a publication which is cross referenced under more than one subject heading.

#### Anatomy

- Microscopic characterization of slip lines and compression failures in wood cell walls. W.A. Côté, Jr. and C.T. Keith. (Reprinted from FOREST PRODUCTS Journal, vol. 18. no. 3. March 1968.)
- \*- Tyloses development in white oak. R.W. Meyer. (Reprinted from FOREST PRODUCTS Journal, Dec. 1967.)
- List of woody species represented in the microscope slide collection of the Forest Products Laboratory, Ottawa. S.C. Chafe, June 1966. Information Report OP-X-6. (0).
- \*- Permeability of Douglas-fir heartwood from various areas of growth in B.C. G. Bramhall. (Reprinted from British Columbia Lumberman, Jan. 1966) (V).
- \*- The structure and properties of reaction wood formed in trees infested with balsam woolly aphid. E. Perem, October 1965. Information Report OP-X-3. (0).
- \*- The comparison of tree qualities. (P-104). P.L. Northcott. (Reprinted from the Forestry Chronicle, June 1965) (V) 2.
- \*- Sinkage of pulpwood during water-driving A survey of the literature. C.T. Keith, 1965. Pub. No. 1130. (0).
- Surface checking in veneered panels. (P-96), C.T. Keith. (Reprinted from Forest Products Journal, October 1964) (0).
- \*- Annual layers affect resistance of wood to impact. (P-53), C.T. Keith. (Reprinted from Forest Products Journal, July 1964) - (0).
- Tension wood in canadian hardwoods. E. Perem, 1964. Pub. No. 1057. (0).
- Reaction wood in hardwoods. E. Perem. (Reprinted from Timber of Canada, October 1963) (0).

### Anatomy Cont'd

- Influence of prosenchyma cell-wall morphology on basic physical and chemical characteristics of wood. (P-9), J.D. Hale and L.P. Clermont. (Reprinted from Journal of Polymer Science, Part C, No. 2, 1963) (0).
- The development of a power increment borer. J.T. Yelf. (Reprinted from the Forestry Chronicle, Sept. 1962) (V).
- Minimum requirements for defining species norms for quality of variable woods. J.D. Hale. (Reprinted from TAPPI, July 1962 (0).
- Characteristics of annual rings in relation to wood quality in white spruce. C.T. Keith. (Reprinted from Forest Products Journal, March 1961) (0).
- Some effects of repeated drying and wetting on wood properties. Clayton T. Keith, 1960. Tech. Note 23 - (0).
- \*- The effect of compression wood on the mechanical properties of white spruce and red pine. E. Perem, 1960. Tech. Note 13 (0).
- \*- The effect of compression wood on the mechanical properties of white spruce and red pine. E. Perem. (Reprinted from the Forest Products Journal, Aug. 1958) (0).
- \*- Review of literature on bark adhesion and methods of facilitating bark removal. E. Perem. (Reprinted from Pulp and Paper Magazine of Canada, Sept. 1958) (0).
- Spiral grain in red alder. R.W. Kennedy and G.K. Elliott. (Reprinted from the Forestry Chronicle, Sept. 1957).
- \*- Shrinkage of red oak and beech. D.C. McIntosh. (Reprinted from Forest Products Journal, Oct. 1955) (0).
- Structure of wood. J.D. Hale. (Chapter 3 of book "Canadian Woods: Their Properties and Uses", 1951) (0).
- \*- Studies on the floating properties of pulpwood logs. D.C. McIntosh, 1951. Mimeo 0-158 (0).
- \*- Effects of chemical treatment of pulpwood trees. D.C.

  McIntosh, 1951. Bulletin 100 (0).
- \*- Density and rate of growth in the spruces and balsam fir of Eastern Canada, J.D. Hale and J.B. Prince, 1940. Bulletin 94 (0).

### Chemistry

- Further studies on the delignifying action of solutions of SO<sub>2</sub>, NO<sub>2</sub> and Cl<sub>2</sub> in dimethylsulphoxide. L.P. Clermont and F. Bender. (Reprinted from Pulp and Paper Magazine of Canada, 1968, vol. 69, no. 5). (0).
- Preparation and structure of dimethyl-x-conidendrin-8-sulfonamide. G.M. Barton. (Reprinted from Canadian Journal of Chemistry, 1967, vol. 46.) (V).
- \*- Differences in phenolic resin extracts from healthy douglasfir roots and those infected with poria weirii. G.M. Barton. (Reprinted from Canadian Journal of Botany, 1967, vol. 45) -(V).
- Higher terpenes in the heartwood extractives of several canadian firs (Abies spp.) E.P. Swan. (Reprinted from Canadian Journal of Chemistry, 1967, vol. 45) (V).
- A stable blue free radical from oxidation of methy tri-q-methyl-plicatate. E.P. Swan and W.C. Landgraf. (Reprinted from Canadian Journal of Chemistry, 1967, vol. 45) (V).
- Applications of solutions to preparative chromatoplates using basic thin layer equipment. G.M. Barton. (Reprinted from Chemistry and Industry, June 1967) (V).
- \*- Review of effect of chip storage on wood resins and pulps.

  N. Levitin. (Reprinted from Technical Section, Pulp and Paper Magazine of Canada, Sept. 1967) (0).
- The effect of swelling agents and catalysts on acetylation of wood. L.P. Clermont and F. Bender. (Reprinted from Forest Products Journal, May 1967) (0).
- Thin-layer chromatography of guaiacylpropane monomers, selected lignans and phenolic wood extractives. G.M. Barton, Journal of Chromatography 26 (1967).
- Chemical methods of differentiating the wood of several western conifers. E.P. Swan. Reprinted from the Forest Products Journal, January 1966) (V).

- \*- Brown stain formation and the phenolic extractives of western hemlock (Tsuga heterophylla (Raf.) Sarg.) G.M. Barton and J.A.F. Gardner, 1966. Pub. No. 1147 (V).
- Polyoxyphenols of western red cedar (Thuja plicata Donn) III. Structure of plicatic acid. J.A.F. Gardner, E.P. Swan, S.A. Sutherland and H. MacLean. (Reprinted from Journal of Chemistry, Vol. 44) 1966.
- a, a' -Dipyridyl as a phenol-detecting reagent. G.M.
  Barton. (Reprinted from Journal of Chromatography, 20
  (1965) 189) (V).
- The petroleum ether soluble extractives of British Columbia coastal and interior-type douglas fir. (P-113), W.V. Hancock and Eric P. Swan. (Reprinted from Phytochemistry, 1965, vol. 4) (V).
- Isolation of milled wood lignin and lignin-carbohydrate complex part II. H.H. Brownell. (Reprinted from TAPPI, Sept. 1965) (0).
- Identity of a hydrocarbon found in a forest soil. (P-110), E.P. Swan. (Reprinted from Forest Products Journal, July 1965) - (V).
- \*- Extractive chemistry of wood and its influence on finishing. (P-90), J.A.F. Gardner. (Reprinted from Official Digest Journal of Paint Technology and Engineering, June 1965) (V).
- Preparation and structure of dimethyl a-conidendrin-8-methyl sulfonate. (P-88), G.M. Barton and J.F. Manville. (Reprinted from the Journal of Organic Chemistry, 30, 659 (1965).
- Ether extractives of red pine and possible means of reducing resin exudation. N. Levitin. (Reprinted from Forest Products Journal, May 1965) (0).
- \*- Effect of high temperature on the durability of western red cedar. B.F. MacDonald and Harold MacLean. (Reprinted from Canadian Forest Industries, March 1965) (V).
- The detection of compounds containing hydroxyl groups on paper chromatograms, Harold H. Brownell. (Reprinted from Journal of Chromatography, Jan. 22, 1965) (0).

- Dimensional stabilization of wood. F. Bender, 1964. Pub. No. 1087 (0).
- \*- Cedar leaf oils. F. Bender, 1963. Pub. No. 1008 (0).
- Characteristics of a phlobaphene from western red cedar bark. (P-2), E.P. Swan. (Reprinted from Forest Products Journal, May 1963).
- The chemistry and utilization of western red cedar. J.A.F. Gardner, 1963. Pub. No. 1023 (V).
- Color precursors in douglas fir. (P-3), G.M. Barton and J.A.F. Gardner. (Reprinted from Forest Products Journal, June 1963).
- The extractives of western red cedar inner bark. (P-7), Eric P. Swan. (Reprinted from TAPPI, April 1963).
- Ether extractives of red and white pine. N. Levitin. (Reprinted from Pulp and Paper Magazine of Canada, March 1962) (0).
- \*- Extractives of red and white pine and their effect on painted lumber. N. Levitin Reprinted from Timber of Canada, June 1962) (0).
- Characterization of a lignin isolated by the action of sulphur dioxide in dimethyl-sulphoxide on spruce wood. L.P. Clermont. (Reprinted from Pulp and Paper Magazine of Canada, August 1962) (0).
- Lignin model compounds II. Preparation and properties of lhydroxy-1- (4-hydroxy-3-methoxyphenyl)-2-propanone. J.A.F. Gardner, D.W. Henderson and Harold MacLean. (Reprinted from Canadian Journal of Chemistry, 1962).
- The nature of the lignin-carbohydrate linkage in wood -fractionation of ball-milled wood solubilized with
  ethylene oxide. H.H. Brownell and K.L. West. (Reprinted from Pulp and Paper Magazine of Canada, Aug. 1961)
   (0).
- The fatty acids of aspen poplar, basswood, yellow birch and white birch. L.P. Clermont. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1961) (0).

- The polyoxyphenols of western red cedar (Thuja plicata Donn.)
  II. Degradation studies on plicatic acid, as possible lignan acid. J.A.F. Gardner, B.F. MacDonald and Harold MacLean. (Reprinted from Canadian Journal of Chemistry, 1960) (V).
- The distribution of dihydroquercetin in douglas fir and western larch. J.A.F. Gardner and G.M. Barton. (Reprinted from Forest Products Journal, March 1960).
- The Polyoxyphenols of western red cedar (Thuja plicata Donn.).

  I. Isolation and preliminary characterization of
  Plicatic Acid. J.A.F. Gardner, G.M. Barton and Harold
  MacLean. (Reprinted from Canadian Journal of Chemistry,
  1959) (V).
- Fermenting wood substrates with a rumen cellulolytic bacterium.

  D.W. Stranks. (Reprinted from Forest Products Journal,
  July 1959) (0).
- Determination of dihydroquercetin in douglas fir and western larch wood. G.M. Barton and J.A.F. Gardner. (Reprinted from Analytical Chemistry, Feb. 1958).
- The chemical composition and pulping characteristics of normal and tension wood of aspen poplar and white elm. L.P. Clermont and F. Bender. (Reprinted from Pulp and Paper Magazine of Canada, July 1958) (0).
- Occurrence of 2,7-dihydroxy-4-isopropyl-2,4,6-cycloheptatrienl-one (7-hydroxy-4-isopropyltropolone) in western red cedar (Thuja plicata Donn.). J.A.F. Gardner, G.M. Barton, and H. MacLean. (Reprinted from Canadian Journal of Chemistry, Sept. 1957) - (V).
- Analytical method of thujaplicins. H. MacLean and J.A.F. Gardner. (Reprinted from Analytical Chemistry, April 1956).
- Microbiological utilization of cellulose and wood. l. Laboratory fermentations of cellulose by remen organisms.

  D.W. Stranks. (Reprinted from Canadian Journal of Microbiology, February 1956) (0).
- Fractionation and identification of the hemicellulose components of black spruce. L.P. Clermont. (Reprinted from Pulp and Paper Magazine of Canada, October, 1955) (0).

- Some chemical and plastic properties of western red cedar butt rot. H. MacLean and J.A.F. Gardner. (Reprinted from Forest Products Journal, Nov. 1953) - (V).
- \*- Heartwood extractives in digester corrosion. H. MacLean and J.A.F. Gardner. (Reprinted from Pulp and Paper Magazine of Canada, Nov. 1953) (V).
- The chemical composition of canadian woods. L.P. Clermont and H. Schwartz, Parts 1 and 2. (Reprinted from Pulp and Paper Magazine of Canada, Dec. 1951 and May 1952) (0).
- Chemical utilization of wood. C. Greaves and H. Schwartz.
  (Chapter 8 of the book "Canadian Woods: Their Properties and Uses", 1951). (0).
- Review of literature on decay in pulpwood, its measurement, and its effect on wood properties and pulp quality.

  D.W. Glennie and H. Schwartz. 1950. Mimeo 0-153.

  (Re-issued 1955).
- Canadian wood bark as a source of tannin. C. Greaves. (Reprinted from Canadian Lumberman, May, 1949) (0).
- Improved wood brief review of various developments, 1946.
  Mimeo O-114.

# Containers and Packaging

- Helical nails for beverage shell construction: C.H. Nethercote. Forestry Branch Dept. Pub. No. 1198 (1967) (0).
- The principles and problems of export packing. C.H. Nethercote. Tech. Note 29 (1961) (0).
- Design of containers and interior packing. J.M. Rudnicki. Tech. Note 22 (1961) (0).
- The selection and use of wood in protective packing. C.H. Nethercote. Tech. Note 17 (1960) (0).
- Performance test for poultry containers. J.M. Rudnicki. (Reprinted from Packaging Progress, December 1959) (0).
- Ottawa Laboratory assists industry with packaging research. C.H. Nethercote. (Reprinted from Packaging Progress, July 1959) - (0).

### Containers and Packaging Cont'd

- Domestic and overseas shipping need efficient protective packs.

  W. Butterworth. (Reprinted from Canadian Packaging,
  June 1951) (0).
- Shipping containers. W. Butterworth. (Chapter 12 of book "Canadian Woods: Their Properties and Uses", 1951) (0).
- Recent developments in containers. W. Butterworth. (Paper presented at the National Annual Meeting, Forest Products Research Society, 1950) (0).
- The design of wooden boxes. R.S. Millett, 1948. Circular 39 (0).
- Effect of slant driving on the holding power of nails. R.S. Millett. Mimeo 0-106 1938 (0).
- Strength of reinforced and unreinforced butter and cheese boxes. G.H. Rochester. Circular 24, 1929 - (0).

#### Fibre and Particleboard

- \*- Use of wood and wood residues in production of fibreboard and particle board. H. Schwartz and F.W. King. Tech. Note 31 (0). (1961).
- Spruce and balsam bark as a source of fibre products. F. Bender. (Reprinted from Pulp and Paper Magazine of Canada, Sept. 1959) (0).
- \*- Wood residues as pulp material and developments in wallboard production. J.A. Doyle and F. Bender. Tech. Note 6, 1957 (0).
- Production of wallboard from wood waste. F. Bender and F. King. Bulletin 120. 1956 (0).

# <u>Fire</u>

- Pyrolysis of untreated cellulose: Effect of inorganic salts on the pyrolysis of cellulose. G.D.M. MacKay. (Reprinted from Forest Products Journal, vol. 18, no. 5, May 1968) (0).
- Mechanism of thermal degradation of cellulose A review of the literature. G.D.M. MacKay. Dept. Pub. No. 1201, 1967 (0).

#### Fire Cont'd

- \*- Behaviour of fire-retardant coatings on fir plywood (P-30). G. Veer and T.S. McKnight. (Reprinted from Canadian Wood Products Industries, August 1963) - (0).
- \*- Treatment of wood with fire retardants. T.S. McKnight. Dept. Publication 1033, 1963 (0).
- \*- The hygroscopicity of wood treated with fire-retarding compounds. T.S. McKnight. Report No. 190, 1962 (0).
- \*- The gluability of fire-retardant-treated birch veneer. E.G. Bergin. Report No. 191 (1962) (0).
- \*- Strength properties of wood treated with fire retardants. A.P. Jessome. Report No. 193, 1962 (0).
- \*- Fire-retardant treatment of wood. H.P. Sedziak. (Reprinted from Timber of Canada, Feb. 1961) (0).
- \*- A method for determining the relative fire-retardant values of surface coatings. R.C. Hubbard. Mimeo, August 1951. (0).

### General Properties and Uses

- \*- Specific gravity survey of eastern canadian woods. E.I. Kennedy, A.P. Jessome and F.J. Petro. Forestry Branch Dept. Pub. No. 1221, 1968 - (0).
- Canada balsam its preparation and uses. F. Bender. Dept. Pub. No. 1182, 1967 (0).
- \*- Red and white oak in boat construction. Roger S. Smith. (Reprinted from Western Fisheries, vol. 73, no. 2, November 1966) (0).
- Analytical procedures for developing log and tree quality classification systems. J. Csizmazia, J.A. McIntosh, C.F. McBride and D.C. Gunn. Dept. Pub. 1144, 1966 (V).
- \*- Properties and utilization of lodgepole pine in western Canada. F.W. Guernsey and J. Dobie. Dept. Pub. No. 1143, 1966 (V).
- The machining properties of 16 eastern canadian woods. M. Cantin. Pub. No. 1111, 1965 (0).

### General Properties and Uses Cont'd

- Properties and utilization of canadian poplars. J.D. Irwin and J.A. Doyle. Tech. Note 24, 1961 (0).
- The characteristics and significance of spruce. K.G. Fensom. Mimeo V-1026, 1959 (V).
- Use of spiraled grain wood. P.L. Northcott. (Reprinted from British Columbia Lumberman, Feb. 1959) (V).
- Yellow cedar: its characteristics, properties and uses. R.S. Perry. Bulletin 114, 1954 (V).
- Commercial timbers of Canada. T.A. McElhanney. (Chapter 2 of book "Canadian Woods: Their Properties and Uses", 1951) (0).
- \*- Sawdust as fuel in eastern Canada. Bulletin 101, 1951 (0).
- Red alder in British Columbia. K.W. Rymer, 1951. Bulletin 98 (V).
- Book Canadian woods: their properties and uses. 1951. (400 pages 8½" x 11" available through the Queen's Printer, Ottawa and commercial bookstores price \$4.00)
- Wooden tanks in industry. M.J. Brophy. Circular 55, 1939 (0).

# Glues and Gluing

- Bond degrade accelerating machine helps predict bond life. D.C. Walser and H.G.M. Colbeck. (Reprint from Adhesives Age, 1967, vol. 10, no. 11) - (V).
- Catalyzed p.v.a. emulsions as wood adhesives. M.N. Carroll and E.G. Bergin. (Reprinted from Forest Products Journal, November 1967) (0).
- Can the service life of bonds be predicted? P.L. Northcott, H.G.M. Colbeck and A. Kozak. (Authorized reprint from the copyrighted durability of adhesive joints - special technical publication no. 401 - published by the American Society for testing and materials, 1966) - (V).
- \*- Accelerated tests for deterioration of adhesive bonds in plywood. P.L. Northcott and W.V. Hancock. (Authorized reprint from the copyrighted durability of adhesive joints, special technical publication No. 401 published by the American Society for testing and materials, 1966) (V).

### Glues and Gluing Cont'd

- Contact adhesives. E.G. Bergin and V. Godin. Pub. No. 1161, 1966 (0).
- \*- Causes of radio frequency burns in edge glued joints. D.G.
  Miller and P. George. Forest products research branch
  contribution no. P-74. (Reprinted from Forest Products
  Journal, Jan. 1965) (0).
- Effect of curing temperature on rate of cure and quality of casein glued joints. (P-107), E.G. Bergin. (Reprinted from Forest Products Journal, Apr. 1965) (0).
- Glue bond failures their causes and prevention. (P-102), E.G. Bergin. (Reprinted from Canadian Wood Products Industries, March 1965) - (0).
- \*- Causes of radio frequency burns in edge glued joints. (P-74), D.G. Miller and P. George. (Reprinted from Forest Products Journal, Jan. 1965) - (0).
- Specific gravity influences wood bond durability. (P-59),
  P.L. Northcott. (Reprinted from Adhesives Age, October 1964) (V).
- The gluability of various eastern canadian wood species. (P-76), E.G. Bergin. (Reprinted from Canadian Wood Products Industries, Oct.-Nov. 1964) - (0).
- How moisture affects strength of casein bonds. (P-40), R.W. Peterson. (Reprinted from Canadian Wood Products Industries, Feb. 1964) (0).
- Wood adhesives. Pub. No. 1055, 1964. R.W. Peterson. (0).
- Durability of r.f. cured urea bonds. (P-1), R.W. Peterson. (Reprinted from Forest Products Journal, May 1963) (0).
- \*- Evidence of need for wood-failure. (P-24), P.L. Northcott, W.V. Hancock and H.G.M. Colbeck. (Reprinted from copyrighted publication "Adhesion", STP. No. 360, 1963 of the American Society for testing and materials) (V).
- Contact glues' characteristics offer opportunities. (P-21), E.G. Bergin and V. Godin. (Reprinted from Canadian Wood Products Industries, April 1963) - (0).
- \*- Dielectric heating: its application to wood bonding. D.G.
  Miller. (Reprinted from Canadian Woodworker, 1962) (0).

### Glues and Gluing Cont'd

- The gluability of fire-retardant-treated birch veneer. E.G. Bergin, 1962 (0).
- Choice of right glue vital for laminated structural timbers. R.W. Peterson. (Reprinted from Canadian Woodworker, Sept. 1959) - (0).
- Effect of wood moisture content on gluing. E.G. Bergin. Tech. Note 12, 1959 (0).
- \*- Electrode systems for stray field heating. D.G. Miller. (Reprinted from Canadian Woodworker, August 1958) (0).
- Durability of urea-formaldehyde and casein adhesives at elevated temperatures. E.G. Bergin. Tech Note 8, 1958 (0).
- \*- The dielectric properties of resin glues for wood. T.J.S. Cole and O.S. Roscoe. Tech. Note 4, 1957 (0).
- \*- Dielectric heating as applied to the woodworking industries. R.W. Peterson, 1954. Bulletin 110 (0).
- \*- Veneers, plywoods and wood adhesives. D.G. Miller (Chapter 10 of the book "Canadian Woods: their Properties and Uses", 1951) (0).
- Vegetable glues for plywood and veneers. G.L. Rosser and W. Galley. Circular 50, 1937 (0).

# Glulam and Other Engineered Wood Products

- Exploratory tests of a nailed plate connector for glued laminated construction. W.M. McGowan. VP-X-11, Feb. 1967 (V).
- Nailed plywood gusset roof trusses for residential construction. N. Isyumov. Pub. No. 1177, 1967 (0).
- A nailed plate connector for glued-laminated timbers. W.N.

  McGowan. (Reprinted from Journal of Materials, vol. 1,
  no. 3. September 1966) (V).
- \*- Stress concentrations around holes and notches and their effect on the strength of wood beams. C.K.A. Stieda. (Reprinted from Journal of Materials, vol. 1, no. 3, September 1966) (V).

### Glulam and Other Engineered Wood Products Cont'd

- Evaluation of the effect of delamination. M.W. Huggins, J.H.L. Palmer and E.N. Aplin. (Reprinted from the Engineering Journal, Feb. 1966) (0).
- \*- A cable and pulley truss testing apparatus. N. Isyumov. Information report no. 7, August 1966. (0).
- Study of checking and delamination in glulam bridge members.

  M.W. Huggins and E.N. Aplin. (Reprinted from the Engineering Journal, June 1965) (0).
- Phototress analysis of timber structures. C.K.A. Stieda. (Reprinted from the proceedings of the second symposium on nondestructives testing of wood, held at Spokane, Washington in April 1965) (V).
- \*- Stress concentrations in notched timber beams. (P-49). C.K.A. Stieda. (Reprinted from Transactions of the Engineering Institute of Canada, vol. 7, no. A-5, October 1964) - (V).
- A survey of literature on the lateral resistance of nails. K.E. Leach. Pub. 1085, 1964 (0).
- Research on mechanical fasteners for residential construction in Canada. D.E. Kennedy. Pub. No. 1071, 1964 (0).
- Knot frequency study of laminating grades for western hemlock. T.W. Littleford. Pub. No. 1009, 1963 (V).
- Is minimum scarf joint spacing needed in glulam? (P-25), N.
  Isyumov. (Reprinted from Canadian Wood Products
  Industries, June 1963) (0).
- Scarf joints -- How quality affects strength of laminates (P-23) (Reprinted from British Columbia Lumberman, July 1963) (V).
- Finger joints for structural usage. Borg Madsen and T.W. Littleford. (Reprinted from Forest Products Journal, Feb. 1962) - (V).
- Strengthening ring-connectored timbers with steel strapping.
  A.P. Jessome and D.E. Kennedy. (Reprinted from Canadian Consulting Engineer, Nov. 1960) (0).
- The use of eastern canadian woods in glued laminated construction. D.E. Kennedy. (Reprinted from Timber of Canada, August 1960) (0).

### Glulam and Other Engineered Wood Products Cont'd

- The efficiency of scarf joints. A.P. Jessome. Tech. Note 9, 1958 (0).
- Improved device for measuring deformation of wood specimens
   in compression parallel to the grain. W.M. McGowan
   and J.T. Yelf. (Reprinted from the Forest Products
   Journal, October 1958) (V).
- The efficiency of scarf joints. A.P. Jessome. (Reprinted from Canadian Woodworker, June 1956) (0).
- Wood Piles specifications and mechanics. J.B. Alexander. (Reprinted from Forest Products Journal, 1953).
- Glued laminated construction and timber fastenings. D.E.
  Kennedy and J.M. Rudnicki. (Chapters 11 and 13 of
  book "Canadian Woods: Their Properties and Uses", 1951)
   (0).
- Panels for house construction. W. Thornber. (Reprinted from Timber of Canada, March-April 1948) (0).

### Paints and Protective Coatings

- \*- Extractive chemistry of wood and its influence on finishing. (P-90). Joseph A.F. Gardner. (Reprinted from Official Digest Journal of Paint Technology and Engineering, June 1965) (V).
- A simple natural finish for exterior siding. F.W. King and T.S. McKnight. Pub. No. 1136, 1965 (0).
- Moisture blistering of paints on house siding. J.J.G. Veer and F.W. King. Pub. No. 1024, 1963 (0).
- Behaviour of fire-retardant coatings on fir plywood. (P-30).
  G. Veer and T.S. McKnight. (Reprinted from Canadian Wood Products Industries, August 1963) (0).
- \*- Extractives of red and white pine and their effect on painted lumber. N. Levitin. (Reprinted from Canadian Wood Products Industries, August 1963) (0).
- A method for determining the relative fire-retardant values of surface coatings. R.C. Hubbard. Mimeo, August 1951 (0).

### Pathology - Decay and Stains

- \*- Differences in phenolic extracts from healthy douglas-fir roots and those infected with Poria Weirii. G.M. Barton. (Reprinted from Canadian Journal of Botany, 1967) (V).
- The adaptation of fungi to pentachlorophenol and its biodegradation. A.J. Cserjesi. (Reprinted from Canadian Journal of Microbiology, vol. 13, 1967) - (V).
- New treatment to prevent brown stain in white pine. M.Y. Cech. (Reprinted from Forest Products Journal, November 1966) (0).
- Sapstain and mould prevention by spraying and dipping. A.J. Cserjesi and J.W. Roff. (Reprinted from British Columbia Lumberman, June 1966) (V).
- \*- Brown stain formation and the phenolic extractives of western hemlock (Tsuga heterophylla (Raf.) Sarg.).
  G.M. Barton and J.A.F. Gardner. Pub. No. 1147, 1966.
   (V).
- Chemical preventives used against mould and sapstain in unseasoned lumber. J.W. Roff and A.J. Cserjesi. (Reprinted from British Columbia Lumberman, May 1965) (V).
- \*- A review of log storage practices. J. Dobie. (Reprinted from British Columbia Lumberman, April 1965) (V).
- \*- Effect of high temperature on the durability of western red cedar. B.F. MacDonald and Harold MacLean. (Reprinted from Canadian Forest Industries, March 1965) (V).
- \*- Detection of rot in wood by electronic x-ray fluoroscopy. (P-54). D.G. Miller. (Reprinted from B.C. Lumberman, Oct. 1964) (0).
- Retention of pentachlorophenol in lumber dipped in water solutions. (P-44). A.J. Cserjesi and J.W. Roff. (Reprinted from Forest Products Journal, Aug. 1964) (V).
- Service life of western red cedar in water cooling towers in Canada. J.W. Roff. Fub. No. 1078, 1964 (V).
- Effect of a mould, trichoderma viride, on decay of birch by four storage-rot fungi. (P-20). J.K. Shields and E.A. Atwell. (Reprinted from Forest Products Journal, July 1963) (0).

### Pathology - Decay and Stains Cont'd

- Relative strength and decay resistance of red-stained lodgepole pine. J.W. Roff and Elizabeth I. Whittaker. Pub. No. 1031, 1963 - (V).
- Decay resistance of western red cedar -- relative to kiln seasoning, colour and origin of the wood. J.W. Roff, E.I. Whittaker and H.W. Eades. Tech. Note 32, 1962 - (V).
- Reduction of decay in packaged lumber. J.W. Roff. (Reprinted from British Columbia Lumberman, May 1962) (V).
- The metabolic detoxication of 2, 4-dinitrophenol by fusarium oxysporum. C. Madhosingh. (Reprinted from Canadian Journal of Micribiology, Aug. 1961) (0).
- Relative decay resistance of western hemlock and douglas fir plywood and the effect of weathering. H.W. Eades and J.W. Roff. (Reprinted from Timber of Canada, Feb. 1960).
- Toxicity tests of a new tropolone, B,-thujaplicinol (7-hydroxy-4-isopropyl-tropolone) occurring in western red cedar.

  J.W. Roff and E.I. Whittaker. (Reprinted from Canadian Journal of Botany, vol. 37, 1959) (V).
- Deterioration of logging residue on the British Columbia coast. J.W. Roff and H.W. Eades. Tech. Note 11, 1959) - (V).
- Red heart stain in lodgepole pine logs in the southern interior of British Columbia. H.W. Eades and J.W. Roff, Sept. 1959. Mimeo V-1025.
- Loss in stiffness evaluates decay resistance of wood treated with copper naphthenate. J.W. Roff and H. Shen. (Reprinted from Forest Products Journal, Aug. 1959) (V).
- Red heart stain of lodgepole pine logs in the northern interior of British Columbia. H.W. Eades and J.W. Roff. Mimeo V-1027 (V).
- Decay and discolorations in poplar pulpwood. E.A. Atwell. Tech. Note 1 (1956) (0).
- Sap stain and mould prevention on British Columbia softwoods. H.W. Eades. Bulletin 116, 1956 - (V).
- \*- Wooden scows Some factors affecting their durability. H.W. Eades. (Revised 1956) Mimeo V-1019.

# Pathology - Decay and Stains Cont'd

- \*- Streaky red heart in douglas fir. H.W. Eades and J.B. Alexander. Bulletin 113, 1954 (V).
- Toxicity tests of a water-soluble phenolic fraction (thujaplicin-free) of western red cedar. J.W. Roff and J.M. Atkinson. (Reprinted from Canadian Journal of Botany, January 1954) - (V).
- Decay and stains in wood. C.W. Fritz. (Chapter 6 of book "Canadian Woods: Their Properties and Uses", 1951) (0).
- Sap stain and mould prevention the relative efficacy of certain chemicals. H.W. Eades and J.W. Roff, 1950. Mimeo V-1007.
- \*- Strength of jack pine poles infected with pocket rot. D.E. Kennedy and W.E. Wakefield. Circular 65, 1948 (0).
- \*- Red stain and pocket rot in jack pine their effect on strength and serviceability of the wood. Circular 63, 1948 - E.A. Atwell - (0).
- Strength and spike holding quality of jack pine ties containing red rot. D.E. Kennedy. Mimeo O-111, 1947 (0).
- Cause and prevention of decay in wooden buildings with particular reference to the coastal region of British Columbia. H.W. Eades. Circular 61, 1945 (V).
- Decay in red-stained jack pine ties under service conditions. C.W. Fritz and E.A. Atwell. Circular 58, 1941 - (0).
- \*- Strength and spike retention properties of jack pine ties affected with red stain and red rot. G.H. Rochester. Circular 34, 1932 (0).
- Depletion of pentachlorophenol by fungi. H.H. Unligil. (Reprinted from the Forest Products Journal, February 1968).

# Physics

Vibrational properties of wood. D.G. Miller and J. Benicak. (Reprinted from Forest Products Journal, vol. 17, no. 12, 1967) - (0).

### Physics Cont'd

- Sonic inspection of internal bonds in plywood and other materials. R.S. Humble, J.O. McCutcheon and D.G. Miller. (Reprinted from British Columbia Lumberman, vol. 51, no. 8, 1967) (0).
- Development of a vibration grader and comparison of vibration grading with visual and mechanical grading. D.G. Miller and Y. Tardif. Forestry Branch Departmental Publication No. 1208, 1967 (0).
- \*- Machine grading theory and practice. H.C. Hilbrand and D.G. Miller. (Reprinted from Forest Products Journal, vol. 16, nos. 11 and 12, Nov.-Dec. 1966) (0).
- \*- Factors affecting the "out-turn" of a non-destructive test.

  D.G. Miller. (Reprinted from Canadian Forest Industries,
  April 1966) (0).
- Cell for dielectric measurements on hygroscopic materials.
  A.J. Nanassy. (Reprinted from Review of Scientific Instruments, June 1965) (0).
- \*- Causes of radio frequency burns in edge glued joints. (P-74).

  D.G. Miller and P. George. (Reprinted from Forest
  Products Journal, January 1965) (0).
- \*- Detection of rot in wood by electronic x-ray fluoroscopy. (P-54). D.G. Miller. (Reprinted from B.C. Lumberman, Oct.1964) (0).
- Effect of tolerance on selection efficiency of nondestructive strength tests of wood. (P-43). D.G. Miller. (Reprinted from Forest Products Journal, Apr. 1964) (0).
- Non-destructive testing of cross-arms for strength. D.G. Miller. Pub. No. 1021, 1963, (0).
- \*- Dielectric heating: its application to wood bonding. D.G.
  Miller. (Reprinted from Canadian Woodworker, 1962) (0).
- Selection efficiencies of nondestructive strength test. D.G.
  Miller. (Reprinted from Forest Products Journal,
  August 1962) (0).
- The dielectric properties of wood. R.W. Peterson. Tech. Note 16, 1960 (0).

## Physics Cont'd

- \*- Electrode systems for stray field heating. D.G. Miller. (Reprinted from Canadian Woodworker, August 1958) (0).
- \*- The dielectric properties of resin glues for wood. I.J.S. Cole and O.S. Roscoe. Tech. Note No. 4, 1957 (0).
- \*- Shrinkage of red oak and beech. D.C. McIntosh. (Reprinted from Forest Products Journal, October 1955) (0).
- \*- Dielectric heating as applied to the woodworking industries. R.W. Peterson. Bulletin 110, 1954 (L).
- \*- Density and rate of growth in the spruces and balsam fir of eastern Canada. J.D. Hale and J.B. Prince. Bulletin 94, 1940 (0).

### Preservation

- The effect of wood properties on uptake of chemicals from aqueous solutions. A.J. Cserjesi, K.K. Quon and A. Kozak. (Reprinted from Journal of the Institute of Wood Science, vol. 4, no. 1, 1967) (V).
- A report : pressure impregnation of western hemlock. G.
  Bramhall. (Reprinted from Forest Industries, Oct. 1967)
   (V).
- Treated lodgepole-pine poles survive long-time test. G.
  Bramhall. (Reprinted from Electrical World, vol. 167, no. 26, 1967) (V).
- A comparison of the assay and multiple boring methods of inspecting douglas-fir piling. G.B. Bramhall. (Reprinted from the Proceedings of the American Wood Preservers Association, 1967) (V).
- Marine borers and wooden piling in British Columbia waters. G. Bramhall. Pub. No. 1138, 1966 (V).
- \*- Permeability of douglas-fir heartwood from various areas of growth in B.C. G. Bramhall. (Reprinted from British Columbia Lumberman, Jan. 1966) (V).
- Wood preservation around the home and farm. Dept. Pub. No. 1117, 1966. H.P. Sedziak (0).
- Steaming and impregnations of round western hemlock. W.M. Conners, Pub. No. 1122, 1965 (V).

### Preservation Cont'd

- Service life of western red cedar in water cooling towers in Canada. J.W. Roff. Pub. No. 1078, 1964 (V).
- An easy way to preserve fence-posts by sap displacement. J. Krzyzewski. Pub. No. 1076, 1964 (0).
- Surging its cause and control in wood preservation. W.M. Conners. Pub. No. 1062, 1964 (V).
- Treatment of wood with fire retardants. T.S. McKnight. Pub. No. 1033, 1963 (0).
- Effect of some preservatives on the electrical resistance of wood. (P-17). A.R. Katz and D.G. Miller. (Reprinted from Forest Products Journal, July 1963) (0).
- Effect of water storage on electrical resistance of wood. (P-17).

  A.R. Katz and D.G. Miller. (Reprinted from Forest Products Journal, July 1963) (0).
- The hygroscopicity of wood treated with fire-retarding compounds. T.S. McKnight. Report No. 190, 1962 - (0).
- A method to control distillation of liquids under vacuum. W.M. Conners. (Reprinted from the Canadian Journal of Chemical Engineering, Aug. 1962).
- The preservative treatment of fence posts by non-pressure processes. (Revision 1) 1962. H.P. Sedziak. (0).
- Fire-retardant treatment of wood. H.P. Sedziak. (Reprinted from Timber of Canada, Feb. 1961) (0).
- New Ways to fight wood decay fungi. H.P. Sedziak. (Reprinted from Canadian Chemical Processing, July 1961) (0).
- Protection of wooden structures in British Columbia waters. G. Bramhall. Bulletin 126, 1960 (V).
- New preservatives and treatment methods. H.P. Sedziak. (Paper presented at Fifth World Forestry Congress, 1960) (0).
- Application of the logistic function of toxicity testing of wood preservatives. T.S. McKnight. (Reprinted from Forest Products Journal, March 1958) (0).
- An evaluation of factors affecting the rate of drying of round western hemlock during the boiling under vacuum process. W.M. Conners and G. Bramhall. (Reprinted from Forest Products Journal, June 1957).

### Preservation Cont'd

- Vapour pressures in western hemlock heartwood during boilingunder-vacuum in creosote. G. Bramhall and W.M. Conners. (Reprinted from Forest Products Journal, August 1955).
- Hot and cold bath preservative treatment of jack pine and spruce crossarms with pentachlorophenol solution. J. Krzyzewski. Mimeo O-166, 1954 (re-issued). (0).
- Preservative treatment of wood. J.F. Harkom. (Chapter 7 of the book "Canadian Woods: Their Properties and Uses", (1951) - (0).
- Preservative treatment of douglas fir and western hemlock sleepers in Canada. C. Greaves. (Paper presented at Annual Meeting, British Wood Preserving Association, 1951) - (0).
- Absorption and penetration of greensalt solutions in mountain douglas fir and eastern spruce. M.J. Colleary. Mimeo O-160, 1951 (0).
- Accelerated testing of wood preservatives, including wood block soil technique. H.P. Sedziak. Mimeo O-149, 1949. (0).
- Creosote treatment of douglas fir. J.F. Harkom. Circular 26, 1929 (0).

# Residue Utilization

- Wood residues in Canada and their utilization. F.M. Lamb. (Reprinted from Forest Products Journal, vol. 16, no. 7, July 1966) (0).
- How sawmill chips are moved in eastern Canada. (P-86). I.B. Flann. (Reprinted from Canadian Forest Industries, November 1964) (0).
- Sawmill chips the growing use for sawmill residue in eastern Canada. (P-16). J.A. Doyle. (Reprinted from Pulp and Paper Magazine of Canada, June 1963) (0).

#### Residue Utilization Cont'd

- Economics of barking and chipping. (P-14) I.B. Flann. (Reprinted from Timber of Canada, January-February 1963) (0).
- \*- Cedar leaf oils. F. Bender. Pub. No. 1008, 1963 (0).
- An outline of the barking and chipping equipment available in Canada. Eastern Canada, I.B. Flann Western Canada, J. Dobie and C.F. McBride. (Reprinted from Timber of Canada, January 1962) (0 & V).
- Production of wood products from lower grade materials. J.A.

  Doyle. (Reprinted from Timber of Canada, March 1962)

   (0).
- \*- Some conversion factors and related information for use in the primary forest industries of eastern Canada.

  I.B. Flann. Tech. Note 26, 1962) (0).
- \*- Use of wood and wood residues in production of fibreboard and particle board. H. Schwartz and F.W. King. Tech. Note 31, 1961 (0).
- Timber utilization in the Tweed and Kemptville forest districts of Ontario (with special reference to wood residues).

  W.W. Calvert, A.L. LaBrecque, J.W. Keenan. Report No. 188, 1961 (0).
- \*- Utilization of aspen wood residues. D.W. Stranks. (Reprinted from Forest Products Journal, July 1961) - (0).
- Slabwood concentration yards for the production of pulp chips from sawmill residue. I.B. Flann. (Reprinted from Canada Lumberman, Dec. 1961) - (0).
- Wood residue as an agricultural aid. F. Bender. (Reprinted from Canada Lumberman, Feb. 1960) (0).
- The production of charcoal in Canada. M. Cantin and J.D. Irwin. (Reprinted from Timber of Canada, July 1960) (0).
- \*- Wood residues as pulp material and developments in wallboard production. J.A. Doyle and F. Bender. Tech. Note 6, 1957 - (0).
- Logging waste in eastern Canada. J.A. Doyle. Bulletin 115, 1955 (0).

### Residue Utilization Cont'd

- Utilization of sawmill waste in the southern coast region of British Columbia. F.W. Guernsey. Bulletin 109, 1953 (V).
- \*- Sawdust as fuel in eastern Canada. Bulletin 101, 1951. (0).

#### Seasoning

- Low-temperature kiln-drying of yellow birch lumber. M.Y.

  Cech and D.R. Huffman. (Reprinted from Forest Products

  Journal, vol. 18, no. 2, Feb. 1968 (0).
- Transverse compression treatment of wood to improve its drying behaviour. M.Y. Cech (and M. Goulet, Laval U.). (Reprinted from Forest Products Journal, May 1968) (0).
- Radio-frequency lumber drying methods, equipment and costs.

  D.G. Miller. (Reprinted from Canadian Forest Industries,
  June 1966) (0).
- Kiln-drying degrade in British Columbia interior douglas-fir. J. Dobie and H.W. Parry, VP-X-10, March 1966.
- Kiln-drying losses in western hemlock and balsam fir. J. Dobie, C.F. McBride and H.W. Parry. (Reprinted from British Columbia Lumberman, March 1966) - (V).
- \*- Effects of drying severity on properties of western hemlock.

  M. Salamon. (Reprinted from Forest Products Journal,

  January 1966) (V).
- High-temperature kiln-drying of eastern canadian species.
  (P-105). W.W. Calvert. (Reprinted from Canadian Wood Products Industries, July 1965) (0).
- Effect of high-temperature drying on quality and strength of western hemlock. M. Salamon. (Reprinted from Forest Products Journal, March 1965) (V).
- Continuous moisture content determination during kiln-drying (using electric resistance technique). M. Salamon. Fub. No. 1091, 1965 (V).

### Seasoning Cont'd

- Kiln-drying in eastern Canada. (P-72). M.Y. Cech. (Reprinted from Canadian Forest Industries, July 1964) (0).
- Development of drying stresses during high-temperature kilndrying. (P-62). M.Y. Cech. (Reprinted from Forest Products Journal, Feb. 1964) - (0).
- Quality and strength properties of douglas fir dried at high temperatures. (P-13). M. Salamon. (Reprinted from Forest Products Journal, Aug. 1963) - (V).
- High temperature kiln-drying of pre-dried yellow birch lumber. (P-11). W.W. Calvert. (Reprinted from Canada Lumberman, Feb. 1963) (0).
- The air seasoning of timbers. Poles and ties. Pub. No. 1030, 1963 (V).
- Kiln-drying of lumber in eastern Canada. R.S. Millett. Tech. Note 21, 1961 (0).
- Wood seasoning. R.S. Millett. Tech. Note 20, 1961 (0).
- High temperature kiln-drying of eastern canadian softwoods.

  J.L. Ladell. Tech. Note 2, 1957 (0).
- High temperature drying of yellow birch. J.L. Ladell. (Reprinted from Forest Products Journal, Nov. 1956) (0).
- Kiln-drying of British Columbia lumber. J.H. Jenkins and F.W. Guernsey. Bulletin 111, 1954 0 (V).
- Dimensional changes in poles caused by seasoning. W.J. Smith, 1954. Mimeo V-1016.
- Moisture content changes in seasoned lumber in storage and in transit. Bulletin 102, 1952 (V).
- Seasoning of lumber. R.S. Millett. (Chapter 5 of book "Canadian Woods: Their Properties and Uses", 1951) (0).
- Effect of kiln-drying upon the strength of western hemlock. J.B. Alexander and C.F. Archer, 1947. Circular 64.
- Change in moisture content of yard-piled softwood lumber in eastern Canada. E.S. Fellows. Circular No. 52, 1937 (0).
- Low-temperature kiln-drying of yellow birch lumber. M.Y. Cech and D. Huffman. (Reprinted from the Forest Products Journal, February 1968.)

## Strength and Related Properties

- Strength of selected eastern spruce joists. A.P. Jessome and K.E. Leach. Forestry Branch Dept. Pub. No. 1220, 1968 (0).
- \*- Specific gravity survey of eastern canadian woods. E.I. Kennedy, A.P. Jessome and F.J. Petro. Dept. Pub. No. 1221, Apr. 1968 - (0).
- Grips for testing lumber in tension. W.H. McGowan. (Reprint from Forest Products Journal, vol. 18, no. 1, 1967) (V).
- Strength of plywood box beams. C.K.A. Stieda. (Reprinted from Canadian Wood Products Industries-Wood Industries, July 1967) (V).
- Load distribution in multiple shear-plate joints in timber.

  N. Isyumov. Forestry Branch Dept. Pub. No. 1203, 1967 (0).
- \*- Properties and utilization of lodgepole pine in western Canada. F.W. Guernsey and J. Dobie. Pub. No. 1143, 1966 (V).
- \*- Machine grading theory and practice. H.C. Hilbrand and D.G. Miller. (Reprinted from Forest Products Journal, vol. 16, nos. 11 and 12, Nov.-Dec. 1966) (0).
- \*- Stress concentrations around holes and notches and their effect on the strength of wood beams. C.K.A. Stieda. (Reprinted from Journal of Materials, vol. 1, no. 3, published by the American Society for Testing and Materials, Sept. 1966) (V).
- \*- Factors affecting the "out-turn" of a non-destructive test.

  D.G. Miller. (Reprinted from Canadian Forest Industries,
  April 1966) (0).
- \*- Effects of drying severity on properties of western hemlock.

  M. Salamon. (Reprinted from Forest Products Journal,
  January 1966) (V).
- Strength properties of white spruce from western Canada. D.E. Kennedy. Information Report OP-X-1, September 1965 - (0).
- Literature survey on the holding capacity of nails in western hemlock and western red cedar. F. Hokhold. Pub. No. 1112, 1965 (V).
- Span tables for wood joists and rafters for housing. Elma I. Kennedy. Pub. No. 1110, 1965 (0).

## Strength and Related Properties Cont'd

- Strength and related properties of western red cedar poles. W.M. McGowan and W.J. Smith. Pub. No. 1108, 1965 (V).
- Strength and related properties of woods grown in Canada. Elma I. Kennedy. Pub. No. 1104, 1965 (0).
- \*- Stress concentrations in notched timber beams. (P-49). C.K.A. Stieda. (Reprinted from Transactions of the Engineering Institute of Canada, vol. 7, no. A-5, October 1964) - (V).
- \*- Annual layers affect resistance of wood to impact. (P-53). C.T. Keith. (Reprinted from Forest Products Journal, July 1964) - (0).
- \*- Relative strength and decay resistance of red-stained lodgepole pine. J.W. Roff and Elizabeth I. Whittaker. Pub. No. 1031, 1963 (V).
- Strength and related properties of small, clear specimens of douglas fir cut from stress-graded lumber. W.M. McGowan. Pub. No. 1025, 1963 (V).
- \*- Non-destructive testing of cross-arms for strength. D.G. Miller. Pub. No. 1021, 1963 (0).
- Quality and strength properties of douglas fir dried at high temperatures. M. Salamon. (Reprinted from Forest Products Journal, Aug. 1963) - (V).
- The strength of western hemlock power and communication poles. W.M. McGowan, Tech. Note 27, 1962 (V).
- Strength properties of wood treated with fire retardants. A.P. Jessome. Report No. 193, 1962 (0).
- Variation of strength properties within trees and between trees in a stand of rapid-growth douglas fir. T.W. Littleford. Mimeo V-1028, 1961 (V).
- The strength of douglas fir telephone poles. W.M. McGowan. Tech. Note 15, 1960 (V).
- \*- The effect of compression wood on the mechanical properties of white spruce and red pine. E. Perem. (Reprinted from Forest Products Journal, Aug. 1958) (0).
- \*- The effect of compression wood on the mechanical properties of white spruce and red pine. E. Perem, Tech. Note 13, 1958 (0).

### Strength and Related Properties Cont'd

- Worm holes in jack pine. D.E. Kennedy. (Reprinted from Timber of Canada, January 1957) (0).
- Determination of the strength properties and physical characteristics of canadian woods. W.E. Wakefield. Bulletin 119, 1956 (0).
- \*- Streaky red heart in douglas fir. H.W. Eades and J.B. Alexander. Bulletin 113, 1954 (V).
- Effect of exposure on douglas fir cross-arms. W.E. Wakefield. Bulletin 104, 1952 (0).
- \*- Red stain and pocket rot in jack pine their effect on strength and serviceability of the wood. E.A. Atwell. Circular 63, 1948 (0).
- \*- Strength of jack pine poles infected with pocket rot. D.E. Kennedy and W.E. Wakefield. Circular 65, 1948 (0).
- Strength of telephone poles eastern cedar, red pine and jack pine. Circular 31 (Revised 1947) (0).
- \*- Strength and spike holding quality of jack pine ties containing red rot. D.E. Kennedy. Mimeo 0-111, 1947 (0).
- Effect of kiln-drying upon the strength of western hemlock.
  J.B. Alexander and C.F. Archer, 1947, Circular 64.
- Comparison of the mechanical and physical properties of the heartwood and sapwood of yellow birch. W.E. Wakefield. Circular 51, 1937 (0).
- \*- Strength and spike-retention properties of jack pine ties affected with red stain and red rot. G.H. Rochester. Bulletin 34, 1932 (0).

- Yield of clear cuttings from lower grades of eastern white pine. F.J. Petro and F.M. Lamb. Dept. Pub. No. 1227, 1968 (0).
- An experiment in sheer blade cutting of small logs. J.S.

  Johnston. (Reprinted from Pulp and Paper Magazine of
  Canada, vol. 63, no. 3, 1968) (0).

- Tree shears reduce felling costs, offer other savings. J.A.

  McIntosh and E.L. Korbes. (Reprinted from Canadian
  Forest Industries, vol. 88, no. 3, 1968 (V).
- Some characteristics of the logging residues in selected spruce-balsam areas of the east Kootenay region of British Columbia. J. Csizmazia. (Reprinted from British Columbia Lumberman, vol. 51, no. 6, 1967) (V).
- Tests show lumber, chip recovery higher on band than circular saws. W.W. Calvert and J.S. Johnston. (Reprinted from Canadian Forest Industries, May 1967) (0).
- How chipper headrigs reduce small-log processing costs. J.
  Dobie. (Reprinted from Canadian Forest Industries, vol.
  87, no. 8, 1967) (0).
- Co-operative research raises logging productivity in Sweden. J.A. McIntosh. (Reprinted from Canadian Forest Industries, July 1967) - (V).
- A rectangular components transducer for measuring skidder forces. A.M. Garlicki. (Reprinted from Woodlands Review, August 1967) (0).
- Logging research and mechanization. W.E. McCraw. (Reprinted from Forest Products Journal, July 1967) (0).
- How to profit from mechanized logging. W.E. McCraw. (Reprinted from Canadian Forest Industries, vol. 87, no. 7, 1967)
   (0).
- Hard maple raw material for furniture components: effect of sawmill edging practice on the yield. I.B. Flann, F.M. Lamb and R.W. Neilson. (Reprinted from Forest Products Journal, October 1967) (0).
- Effect of sawmill edging practice on the value of hard maple lumber. I.B. Flann and F.M. Lamb. (Reprinted from the Forest Products Journal, vol. 16, no. 5, May 1966) (0).
- Factors influencing the weight of logs. J. Dobie. (Reprinted from British Columbia Lumberman, Sept. 1965) (V).
- \*- The comparison of tree qualities. (P-104). P.L. Northcott. (Reprinted from the Forestry Chronicle, June 1965) (V).

- Harvesting lodgepole pine in the B.C. interior. (P-111).
  J.A. McIntosh and J. Csizmazie. (Reprinted from
  Canadian Forest Industries, June 1965) (V).
- Why improved sawlog bucking is profitable. (P-106). F.J.
  Petro. (Reprinted from Canadian Forest Industries,
  April 1965) (0).
- Effect of induced lateral vibration of a saw tooth on the cutting of wood. (P-84). A. St-Laurent. (Reprinted from Forest Products Journal, March 1965 (0).
- A review of log storage practices. J. Dobie. (Reprinted from British Columbia Lumberman, April 1965) (V).
- \*- Sinkage of pulpwood during water-driving -- a survey of the literature. C.T. Keith. Pub. No. 1130, 1965 (0).
- Log and tree quality standards for douglas fir in B.C. interior. (P-69). J.A. McIntosh. (Reprinted from Canadian Forest Industries Directory 1964-65 (V).
- Logging small trees in Alberta. (P-81). J. Csizmazia and J.A.

  McIntosh. (Reprinted from British Columbia Lumberman,

  November 1964) (V).
- Sawmilling studies in lodgepole pine. (P-82). J. Dobie and C.F. McBride. (Reprinted from Canadian Forest Industries, Oct. 1964) (V).
- Log sweep and lumber production in the B.C. interior. (P-73).
  J. Dobie. (Reprinted from B.C. Lumberman, Oct. 1964) (V).
- Lumber recovery on a tree length jack pine operation. (P-67).
  I.B. Flann and F.J. Petro. (Reprinted from Canadian Forest Industries, Aug. 1964) (0).
- How to achieve balanced loading and hauling. (P-42). W.E. McCraw. (Reprinted from Canadian Forest Industries, June 1964) (0).
- Log taper related to lumber production. (P-56). J. Dobie. (Reprinted from British Columbia Lumberman, May 1964) (V).
- Relative skidding production of track and wheel skidders. (P-57).
  W.E. McCraw. (Reprinted from Canadian Forest Industries,
  March 1964) (0).

- \*- Impact of wood utilization on the farm woodlot. (P-38).

  J.A. Doyle. (Reprinted from Forestry Chronicle,

  March 1964) (0).
- Lumber recovery from second-growth douglas fir in British Columbia. (P-29). J. Dobie and C.F. McBride. (Reprinted from Forest Products Journal, Feb. 1964) (V).
- Factors affecting overrun and its significance. (P-37). W.W. Calvert. (Reprinted from Canada Lumberman, Oct. 1963)
   (0).
- Truck road standards and hauling costs. (P-32). W.E. McCraw. (Reprinted from Canada Lumberman, August 1963) (0).
- Barking and chipping in the interior of British Columbia. (P-34). C.F. McBride. (Reprinted from Canada Lumberman, July 1963) - (V).
- Hardwood dimension stock its future in Canada. (P-10). I.B. Flann. (Reprinted from Canadian Wood Products Industries, Jan. 1963) (0).
- Pre-logging in a west coast cedar-hemlock stand. J.A. McIntosh. Pub. No. 1028, 1963 (V).
- A million study of 150-year-old douglas fir. J. Dobie. Pub. No. 1032, 1963 (V).
- Experimental cut-off saw ... design and operation. J.S. Johnston. (Reprinted from Forest Products Journal, June 1962) (0).
- Suggested manufacturing tolerances in producing lumber. G.W. Andrews and T.F. Imada. Report No. 185, 1962 (0).
- How to evaluate the quality of hardwood logs for factory lumber. F.J. Petro. Tech. Note 34, 1962 (0).
- Variable factors affecting skidding production in logging. W.E. McCraw. Tech. Note 28, 1962 (0).
- \*- Some conversion factors and related information for use in the primary forest industries of eastern Canada. I.B. Flann. Tech. Note 26, 1962 (0).
- Careful bucking yields more profits. F.J. Petro. (Reprinted from Canada Lumberman, Feb. 1961) (0).

- Effect of tree size of jack pine on harvesting and conversion to lumber in northern Ontario. J.A. Doyle and W.W. Calvert. Tech. Note 19, 1961 (0).
- Developing an experimental two-piece circular saw blade. J.S. Johnston. (Reprinted from Forest Products Journal, Sept. 1960) (0).
- Some effects of mill type of the sawing of small logs. T.F. Imada. (Reprinted from Canada Lumberman, Aug. and Oct. 1960) (0).
- Small sawlogs and the production of spruce lumber. J.A. Doyle. (Reprinted from Timber of Canada, April 1960 ) (0).
- Lumber degrade caused by ambrosia beetles. C.F. McBride and J.M. Kinghorn. (Reprinted from British Columbia Lumberman, July 1960) (V).
- Grading hardwood logs for factory lumber. W.W. Calvert. Tech. Note 18, 1960. (0).
- Comparison of taper sawing and through-and-through sawing.

  Mimeo 0-184 1960.
- \*- Review of literature on bark adhesion and methods of facilitating bark removal. E. Perem. (Reprinted from Pulp and Paper Magazine of Canada, Sept. 1958) (0).
- Controlling your sawmill production. G.W. Andrews. (Reprinted from Canada Lumberman, May 1958) (0).
- Your circular headrig how to get the most from it. G.W.
  Andrews. (Reprinted from Timber of Canada, Jan.1958)
   (0).
- The short log bolter its use in conversion of canadian woods. Tech. Note 10, 1958. W.W. Calvert. (0).
- Losses incurred in drying and dressing lumber in the Prince George area of B.C. C.F. McBride. Mimeo V-1024, 1958 (V).
- Grading hardwood logs for factory lumber. W.W. Calvert. (Reprinted from Timber of Canada, May 1957) (0).
- Effect of tree size of spruce and balsam fir on harvesting and conversion to lumber in Nova Scotia. J.A. Doyle. Tech. Note 5, 1957 (0).

- Breakage and other losses in logging on the British Columbia coast. G.R.W. Nixon. Mimeo V-1017, 1955. (V).
- Lumber and pickets. A comparison of recovery by two edging methods. G.W. Andrews. (Reprinted from Timber of Canada, May 1957) (0).
- Adjustable sawmilling gauge. G.W. Andrews. (Reprinted from Timber of Canada, May 1954) (0).
- Power at the headsaw. G.W. Andrews. (Reprinted from Timber of Canada, April, 1954) (0).
- Logging and milling balsam. C.F. McBride and G.R.W. Nixon. Mimeo V-1015, 1954 (V).
- Gangsaw production higher in small log conversion. G.E. Bell. (Reprinted from Canada Lumberman, Sept. 1951) (0).
- Lumber handling at the rear of the sawmill. G.E. Bell and P.E. Martin. (Reprinted from Timber of Canada, April 1951) (0).
- \*- Effects of chemical treatment of pulpwood trees. D.C. McIntosh. Bulletin 100, 1951 (0).

# Veneer and Plywood

- The grinding of veneer knives. V. Godin. Dept. Pub. No. 1236, 1968 (0).
- Design and performance of roller pressure bars for veneer lathes. O. Feihl. Dept. Pub. No. 1225, 1968 (0).
- Setting veneer lathes with aid of instruments. O. Feihl and V. Godin. Forestry Branch Dept. Pub. No. 1206, 1967 (0).
- Wear, play and heat distortion in veneer lathes. O. Feihl and V. Godin. Pub. No. 1188, 1967 (0).
- Veneer and plywood from aspen poplar. O. Feihl and V. Godin. Pub. No. 1157, 1966 (0).
- Veneer-roughness scale. (P-115). P.L. Northcott and D.C. Walser. (Reprinted from British Columbia Lumberman, July 1965) (V).
- Plantation-grown red pine for veneer and plywood. (P-75). O. Feihl and V. Godin. (Reprinted from Canadian Wood Products Industries, January 1965) (0).

### Veneer and Plywood Cont'd

- The rotary cutting of douglas fir. O. Feihl, H.G.M. Colbeck and V. Godin. Pub. No. 1004, 1965 (0-V).
- Veneer from eastern hemlock. (P-58). O. Feihl and V. Godin. (Reprinted from Canadian Forest Industries, December 1964) (0).
- Strength tests of end and edge joined douglas fir plywood. (P-60). T.W. Littleford. (Reprinted from the B.C. Lumberman, July 1964) (V).
- Rotary cutting of curly yellow birch. A.O. Feihl. Dept. of Forestry Pub. No. 1086, 1964 (0).
- \*- Evidence of need for wood-failure. (P-24). P.L. Northcott, W.V. Hancock and H.G.M. Colbeck. (Reprinted from Copywighted publication "Adhesion", STP. no. 360, 1963, of the American Society for Testing and Materials) (V).
- Accurately adjusted lathe key to thin veneer cutting. (P-33).

  O. Feihl and V. Godin. (Reprinted from Canadian Wood Products Industries, Sept. 1963) (0).
- Effect of heat treatment on the surface of douglas fir veneer. (P-26). W.V. Hancock. (Reprinted from Forest Products Journal, Feb. 1963) (V).
- Curved plywood its production and application in the furniture industry. D.G. Miller. Report No. 177, 1962 (0).
- Peeling defects in veneer their causes and control. O. Feihl and V. Godin. Tech. Note 25, 1962 (0).
- Veneer and plywood for finish flooring. M. Cantin. (Reprinted from Canadian Woodworker, July 1962) (0).
- Microscopic identification of undercured glue bonds in plywood. W.V. Hancock and P.L. Northcott. (Reprinted from Forest Products Journal, July 1961) (V).
- Effect of dryer temperatures on bending strength of douglas fir veneers. P.L. Northcott and H.G.M. Colbeck. (Reprinted from Forest Products Journal, Sept. 1959) (V).
- Some factors influencing the design of douglas fir plywood panels. H.G.M. Colbeck and P.L. Northcott. (Reprinted from Forest Products Journal, August 1958) (V).

## Veneer and Plywood Cont'd

- Reducing heat distortion in the knife and pressure bar assemblies of veneer lathes. A.O. Feihl. (Reprinted from Forest Products Journal, July 1958) (0).
- \*- Veneers, plywood and wood adhesives. D.G. Miller. (Chapter 10 of book "Canadian Woods: Their Properties and Uses", 1951) (0).
- Curved plywood a modern mass production material. R.W.
  Peterson. (Reprinted from Canadian Woodworker, March
  1950) (0).

### Miscellaneous

- \*- Red and white oak in boat construction. R.S. Smith. (Reprint from Western Fisheries, Nov. 1966) (V).
- Analytical procedures for developing log and tree quality classification systems, J. Csizmazia, J.A. McIntosh, C.F. McBride and D.C. Gunn. Pub. No. 1144, 1966 (V).
- Forest products laboratory, Ottawa, Ontario program review 1965 and 1966. Department of Forestry and Rural Development Forestry Branch.
- The importance of national standards to the forest products industries. Pub. No. 1135, 1965. J.H. Jenkins (0).
- The development of the grade marking of lumber in Canada. J.H. Jenkins. Pub. No. 1134, 1965 (0).
- Canada and its role in the international standard field. J.H. Jenkins. Pub. No. 1132, 1965 (0).
- Lumber measurement of the future inch or metric? (P-61).

  J.H. Jenkins. (Reprinted from British Columbia Lumberman,
  Feb. 1964) (0).
- Role of a Forest Products Research Laboratory in the development of the national economy. (P-39). J.H. Jenkins. (Reprinted from Forestry Chronicle, September 1963) (0).
- Grade marking of canadian lumber. J.H. Jenkins. Report No. 189, September 1962 (0).
- Will synthetics replace wood products? J.H. Jenkins. (Reprinted from Canadian Woodworker, Feb. 1959) (0).

## Miscellaneous Cont'd

- Lumber is its future secure? J.H. Jenkins. (Reprinted from Timber of Canada, Jan. 1959) (0).
- A canadian's impressions of Russia's forest industries. J.H.

  Jenkins. (Paper prepared for presentation at Annual
  meeting of Forest Products Research Society, Syracuse,
  1958) (0).
- Lumber developments in the South Pacific. J.H. Jenkins. (Reprinted from the British Columbia Lumberman, April 1958) (0).
- Growth of the forestry industry in the Soviet Union. J.H.

  Jenkins. (Reprinted from the British Columbia Lumberman,

  April 1958) (0).
- The forests and forest industries of Australia and New Zealand.
  J.H. Jenkins. (Reprinted from Timber of Canada, May and June, 1958) (0).
- \*- Wooden scows some factors affecting their durability. H.W. Eades. (Revised 1956) Mimeo V-1019.
- \*- Heartwood extractives in digester corrosion. H. MacLean and J.A.F. Gardner. (Reprinted from Pulp and Paper Mag. of Canada, November 1953) (V).
- The challenge of wood. J.H. Jenkins. (Paper presented before the Royal Canadian Institute, Toronto, December 1953) (0).

# FOREST FIRE

- Forest fire danger meter. P.M. Paul. (FRTN116) 1962
- Heat tolerance of scots pine seedling cambium using tetrazolium chloride to test viability. A.J. Kayll. (Sommaire en français). (1006) 1963
- A technique for studying the fire tolerance of living tree trunks. A.J. Kayll. (Sommaire et conclusions en français). (1012) 1963
- Prescribed burning experiments red and white pine. C.E. Van Wagner. (1020) 1963
- Forest fire danger manual. D.E. Williams. (1027) 1963

- Flammability of Christmas trees. C.E. Van Wagner. (Sommaire en français). (1034) 1963
- Forecasting forest fire danger in the Maritime Provinces. P.M. Paul. (1047) 1964
- Planning for forest fire control. J.C. Macleod. (Sommaire en français). (1048) 1964
- Extinguishers for forest fire control. D.G. Fraser. (Sommaire en français). (1058) 1964
- The influence of insolation on fire hazard in coastal douglas fir slash. D.E. Williams. (Sommaire en français). (1060) 1964
- Surface area of fine fuel components as a function of weight. S.J. Muraro. (Conclusion en français). (1080) 1964
- A method of measuring fire rate-of-spread in extracted samples of ground vegetation. S.J. Muraro. (Sommaire en français). (1081) 1964
- Some effects of slope on fire climate. S.J. Muraro. (Sommaire et conclusions en français). (1089) 1964
- Economics and forest fire control. J.S. Mactavish. (Conclusions en français). (1114) 1965
- Aids to forest fire control planning at Petawawa. C.E. Van Wagner. (1127) 1965
- Three experimental fires in jack pine slash. C.E. Van Wagner. (1146) 1966
- Forest fire danger tables The Maritimes. (1151) 1966
- Lodgepole pine logging slash. S.J. Muraro. (1153) 1966
- Appraising fire damage to mature forest stands. J.S. Mactavish. (1162) 1966
- The sprayer-duster as a tool for forest fire control. (1167)
- Lightning behaviour and lightning fires in canadian forests.
  P. Kourtz. (1179) 1967

- Calculations on forest fire spread by flame radiation. C.E. Van Wagner. (1185)
- Fuel weight tables for white spruce and lodgepole pine crowns in Alberta. A.D. Kiil. (1196) 1967
- Forest fire danger tables district of Mackenzie, Northwest Territories. (1197) 1967
- Seasonal variation in moisture content of eastern canadian tree foliage and the possible effect on crown fires. C.E. Van Wagner. (1204) 1967
- Forest fire risks in forest valuations. G.C. Wilkes. For. Chron., Vol. 31, No. 3, Sept. 1955. (SEP11)
- Forest fire control plans. J.C. Macleod. For. Chron., Vol. 32, No. 2, June 1956. (SEP15)
- Two control-burns in jack pine cut-over. D.E. Williams.
  Woodlands Review, Pulp and Paper Mag. of Canada,
  Convention Issue, 1958. (SEP24)
- Soil sterilants and herbicides in forest fire control. D.G. Fraser. Pulp and Paper Mag. of Canada, Woodlands Review, Vol. 59, No. 5, May 1958. (SEP25)
- A new worry in forest fire control. J.S. Mactavish. Timber of Canada, June, 1960. (SEP50)
- Forest fire research by the Federal Forestry Branch. J.C. Macleod. Pulp and Paper Mag. of Canada; Woodlands Review, Vol. 61, no. 11, November, 1960. (SEP57)
- History of a small crown fire. C.E. Van Wagner, For. Chron., June, 1964, Vol. 40, No. 2. (SEP136)
- The Wap burn. S.J. Muraro. B.C. Lumberman, August 1964, Vol. 48, No. 8, (SEP149)
- Wind measurement with hydrogen-filled balloons. J.L. Adams. Fire Control Notes, July, 1963, Vol. 24, No. 3. (SEP151)
- An unusual potential cause of forest fires. G.S. Chester and E.J. Hopkins. Fire Control Notes. July 1964. (SEP153)
- Stabilization of slash fuel samples. S.J. Muraro. Fire Control Notes, October 1964, Vol. 25, No. 4. (SEP175)

- Story of an intense crown fire at Petawawa. C.E. Van Wagner.
  Woodlands Review Section, Pulp and Paper Mag. of
  Canada. June 1965. (SEP187)
- A method of preparing an edge-punched card literature reference file. G.S. Chester. Forestry Chronicle, June 1965, Vol. 41, No. 2. (SEP194)
- Describing forest fires old ways and new. C.E. Van Wagner. For. Chron., Vol. 41, No. 3, 1965. (SEP199)
- Forest fire control some modern aspects. G.S. Chester.
  Reprinted from the Forestry Chronicle, Vol. 42, No. 1,
  March 1966. (SEP232)
- Slash-burning research. D.E. Williams. Reprinted from British Columbia Lumberman, June 1966. (SEP245)
- Future application of meteorology in fire control. D.E. Williams. Forestry Chronicle, Vol. 43, No. 1, March 1967. (SEP272)
- Prescribed burning techniques for site preparation in cut-over jack pine in Southeastern Manitoba. John L. Adams.

  Reprinted from Woodlands Review, Pulp and Paper Mag. of Canada, December 1966. (SEP274)
- Symposium on prescribed burning. W.A. Foster, et al. Reprinted from Woodlands Review Section, Pulp and Paper Magazine of Canada, January 1967. (SEP275)
- Prescribed burning in a white spruce-trembling aspen stand in Manitoba. R.E. Tucker and J.M. Jarvis. Reprinted from Woodlands Review, July 1967. (SEP281)
- Forest fire danger tables for Newfoundland. (1133) 1957
- Forest fire danger tables for Ontario. 1957
- Forest fire danger tables for Manitoba. (1119) 1957
- Forest fire danger tables for Saskatchewan. 1959
- Forest fire danger tables for British Columbia Coast. (1099)
  1961
- Forest fire danger tables for British Columbia Cariboo. (1101)

Forest fire danger tables for Alberta. 1959

Forest fire danger tables for Alberta East Slope. 1957

Forest fire danger tables for District of Mackenzie, Northwest Territories. (1197) 1967

Cladonia fire hazard table Alberta. J.S. Mactavish. Supplement to forest fire danger tables, Alberta, 1959. 1963

## Forest Fire Control Abstracts

#### Book 2

Volume VII, Numbers 1 and 2. (1957)

Volume VIII. Numbers 1 and 2. (1958)

Volume IX, Numbers 1 and 2. (1959)

Volume X, Numbers 1 and 2. (1960)

Volume XI, Numbers 1 and 2. (1961)

Volume XII, Numbers 1 and 2. (1962)

## Book 3

Volume XIII, Numbers 1 and 2. (1962)

Volume XIV, Numbers 1 and 2. (1963)

Volume XV, Numbers 1, 2, 3 and 4. (1964)

Volume XVI, Numbers 1, 2, 3 and 4. (1965)

Volume XVII, Numbers 1, 2, 3 and 4. (1966)

Volume XVIII, Numbers 1, 2, 3 and 4. (1967)

Forest fire control abstracts cumulative index volumes 13 to 16 - Book three.

Forest fire losses in Canada 1966. D.L. McLean and M.R. Lockman. (1967)

## Meteorology

- The standard weather station at the Petawawa Forest Experiment Station, Chalk River, Ontario. J.W. Fraser and C.R.C. Farr. (Résumé en français). (1131) 1965
- Winter injury of lodgepole pine foliage. L.B. MacHattie. Weather Magazine, London, S.W. 7, England. (SEP111)
- Radiation screens for air temperature measurement. L.B.
  MacHattie. Ecology Vol. 46, No. 4, Early summer.
  (SEP206)
- Future application of meteorology in fire control. D.E. Williams. Reprinted from the Forestry Chronicle, March 1967, Vol. 43, No. 1, (SEP272)

## INVENTORY AND MENSURATION

- A forest survey method. H.E. Seely. (FRTN8) 1955
- Average height weighted by volume in air photo interpretation. F.D. MacAndrews. (FRTN17) 1955
- Recognition of tree species on air photographs by crown characteristics. Leo Sayn-Wittgenstein. (FRTN95) 1961
- Phenological aids to species identification on air photographs. Leo Sayn-Wittgenstein. (FRTN104) 1961
- Tree measurements on large-scale vertical, 70mm. air photographs. F.W. Kippen and L. Sayn-Wittgenstein. (Sommaire en français). (1053) 1964
- Canadian forest inventory methods. H.E. Seely. (1068) 1964
- Provisional aerial stand volume tables for selected forest types in Canada. G.M. Bonnor. (1175) 1966
- Forest inventories in Canada. H.E. Seely. (Prepared for 7th British Commonwealth Forestry Conference). (8) 1957
- Forest inventory and reforestation under the Canada Forestry Act 1952 1956. (9) 1958
- Some tests on the determination of tree heights from air photographs. A.J. Nash. 1949
- Air photograph and its application to forestry. H.E. Seely. 1949

- Photo-lithographed forest maps. G.A. Spear. 1951
- Determination of tree heights from shadows in air photographs. H.E. Seely. 1942
- The pole scale. H.E. Seely. 1948
- The shadow height calculator. H.E. Seely. 1948
- The forestry tri-camera method of air photography. H.E. Seely. 1948
- Marking air photographs. F.W. Kippen. Canadian Surveyor, Vol. XIV, No. 1, January 1958. (SEP22)
- Some developments in photogrammetry. H.E. Seely. Pulp and Paper Mag. of Canada, Woodlands Review, June issue, 1959. (SEP40)
- A rapid method of laying out circular plots. R.H. Kendall and L. Sayn-Wittgenstein. For. Chron., Vol. 36, No. 3, September, 1960. (SEP55)
- A test of effectiveness of air photo stratification. R.H. Kendall and L. Sayn-Wittgenstein. For. Chron., Vol. 37, No. 4, December 1961. (SEP76)
- The value of 70mm. air cameras for winter air photography.
  H.E. Seely. Pulp and Paper Mag. of Canada, Woodlands
  Review, Vol. 63, No. 5, May 1962. (SEP84)
- A preliminary study of aerial volume-table construction for lodgepole pine in West-Central Alberta. P.J.B. Duffy and M.P. Meyer. For. Chron., Vol. 38, No. 2, June 1962. (SEP91)
- Report of the committee on forest mensuration problems. T.G. Honer and L. Sayn-Wittgenstein. Jour. of Forestry, Vol. 61, No. 9, September 1963. (SEP104)
- Large-scale sampling photographs for forest surveys in Canada. Leo Sayn-Wittgenstein. International Training Centre for aerial survey. Delft, The Netherlands, September 1962. (SEP112)
- Mathematics and mensuration in the forestry carriculum. T.G.

  Honer. Proceedings, Society of American Foresters.

  Boston, Mass., 1963. (SEP132)

- Evaluation of the transect area-meter method of measuring maps. A.H. Aldred. For. Chron., June 1964, Vol. 40, No. 2, (SEP141)
- A tree volume table for red pine by crown width and height. G.M. Bonnor. (Résumé en français). For. Chron., September 1964, Vol. 40, No. 3, (SEP160)
- The use of height and squared diameter ratios for the estimation of merchantable cubic foot volume. T.G. Honer. (Résumé en français). (SEP163)
- Photo interpretation and forest land classification. M.
  Jurdant. Woodlands Review Section, Pulp and Paper Mag.
  of Canada, October 1964. (SEP165)
- Wind-sway error in parallax measurements of tree height.
  A.H. Aldred. Photogrammetric Engineering, September,
  1964. (SEP168)
- Components of stand volume and its increment. F. Evert. (Sommaire en français). Journal of Forestry, Vol. 62, No. 11, November 1964. (SEP169)
- Statistics salvation or slavery? L. Sayn-Wittgenstein. For. Chron., Vol. 41, No. 1, March 1965. (SEP185)
- Estimation of stand volume from airphotos. P.J.B. Duffy.
  Proceedings of a seminar on air photo-interpretation
  in the development of Canada. October 1963. (SEP195)
- The use of aircraft in forest inventories in Canada. L. Sayn-Wittgenstein. Jour. of the Royal Aeronautical Society, Vol. 69, No. 660. December 1965. (SEP210)
- Volume distribution in individual trees. T.G. Honer. Woodlands Review Section, Pulp and Paper Mag. of Canada, November 1965. (SEP216)
- A simulation model for studying the effect of stand structure on harvesting pattern. R.M. Newnham. Reprinted from the Forestry Chronicle, Vol. 42, No. 1, March 1966. (SEP233)
- A new total cubic foot volume function. T.G. Honer. Reprinted from the Forestry Chronicle, Vol. 41, No. 4, December 1965. (SEP234)

- Large scale aerial photography plans and problems. L. Sayn-Wittgenstein. Reprinted from the Proceedings, 1965. (SEP239)
- To thin or not to thin: some nordic observations on the question. A. Wiksten. Reprinted from the Forestry Chronicle, Vol. 42, No. 3, September 1966. (SEP253)
- Land inventory interpretation. Philip Gimbarzevsky. Reprinted from Photogrammetric engineering, November 1965. (SEP255)
- Tree volumes from large-scale photos. Leo Sayn-Wittgenstein and Alan H. Aldred. Reprinted from Photogrammetric engineering, January 1966. (SEP268)
- Wildland inventory and mapping. D.S. Lacate. Reprinted from the Forestry Chronicle, Vol. 42, 1966. (SEP279)
- Estimation of ground canopy density from ground measurements. G.M. Bonnor. Reprinted from the Journal of Forestry, August 1967, (SEP287)
- The best season for aerial photography. L. Sayn-Wittgenstein.

  Reprinted from Transactions of the 11nd International
  Symposium on photo-interpretation, Paris, 1966. (SEP291)
- A modification to the combined-variable formula for computing tree volumes. R.H. Newnham. Reprinted from the Journal of Forestry, Vol. 65, No. 10, October 1967. (SEP292)
- Reflections in the water. L. Sayn-Wittgenstein and A.H. Aldred.
  Reprinted from Photogrammetric engineering, Nov. 1967.
  (SEP298)
- Product yield tables for red pine plantations. G.M. Bonnor. Faculty of Forestry, University of Toronto, Technical Report No. 8, 1967. (SEP299)
- Simulation models in forest management and harvesting. R.M.

  Newnham. Reprinted from the Forestry Chronicle, Feb.
  1968. (SEP304)
- Plot volumes from large-scale 70mm. Air photographs. A.H. Aldred and F.W. Kippen. Reprinted from Forest Science, Vol. 13, No. 4, December 1967. (SEP310)

- Minimum merchantable tree size and machine productivity a simulation study. R.M. Newnham. Reprinted from Pulp and Paper Magazine of Canada, Convention Issue, 1968, Vol. 69 (C):227-229. (SEP314)
- Program review 1965 and 1966 Forest Management Research and Services Institute (1212) 1967.

## ECONOMICS FOREST RESEARCH

- The use of demand projections in an under-developed country, and an outline and appraisal of methods of projecting the demand for forest products. D.A. Wilson. (Sommaire en français). (1084) 1964.
- Canada's forests. Leaflet, tables, charts. Basic statistical information.
- Estimation of primary forest production in New Brunswick. H. Babcock. (11) 1960.
- Foreign trade in forest products from a point of view of an exporting country Canada. Harold M. Babcock. For. Chron., Vol. 38, No. 1, March 1962. (SEP80).
- Economics of near and distant forest land management. J.E.

  Marshall. Reprinted from Woodlands Review Section,
  Pulp and Paper Mag. of Canada. July 1966. (SEP246)

# MISCELLANEOUS FOREST RESEARCH

- Machines and principles in unit record data processing for forestry purposes. T.G. Honer. (Résumé en français). (1082) 1964.
- Roads and land. W.G.E. Brown. Timber of Canada, February, 1956. (SEP12).
- Some notes on I.U.F.R.O. and a field tour in Finland. D.R. Redmond. For. Chron., June 1964, Vol. 40, No. 2. (SEP135).
- Accuracy of the Swedish bark measuring gauge. F.W. von Althen. For. Chron., June 1964, Vol. 40, No. 2. (SEP142).

## Miscellaneous Forest Research Cont'd

- Is forestry research in Canada adequate? V.J. Nordin. For. Chron., March 1964, Vol. 40, No. 1. (SEP144).
- Variable-speed motorized buret for rapid, semi-automatic neutralization of small volumes. Analytical Chemistry, Vol. 37, Page 446, March 1965, by L.F. Ebell. (SEP180).
- The occurence and role of keto- guanidinovaleric acid in white spruce (picea glauca (moench) voss). D.J. Durzan and R.G. Richardson. Can. Jour. of Chemistry, 44, 141, 1966. (SEP214).
- Watershed research in the Saskatchewan River headwaters. W.W.

  Jeffrey. Proceedings of the fourth hydrology symposium
  on research watersheds. Ont. Agric. Col., Guelph, May
  1964. (SEP221).
- Organization of inter-agency watershed research programs for Canada. D.R. Redmond. Proc. of the fourth hydrology symposium on research watersheds. Ont. Agric. Col., May 1964. (SEP222).
- The effect of the earth's curvature in visibility mapping. C.E. Van Wagner. Fire Control Notes, Vol. 26, No. 4, October 1965. (SEP225).
- Consulting forest management services for indian reserves.
  A.A. Buys. Reprinted from the Forestry Chronicle,
  Vol. 42, No. 4, December 1966. (SEP261).
- Federal and provincial forest policies in Canada. L.Z. Rousseau. Forestry Chronicle, March 1967, Vol. 43, No. 1, (SEP273).

Dutch elm disease (1187) compiled and edited by A.G. Davidson.

Measure for measure. P.J. Rennie. (1195) 1967.

Forestry in Canada. J.D.B. Harrison. 1967.

Habits and control of the forest tent caterpillar. C.E. Brown.

- Automated computation and plotting of stem-analysis data. L. G. Brace and K.M. Magar. (1209) 1968.
- An approach to simultaneous tolerance intervals in regression.

  A.L. Wilson. Reprinted from the Annals of Mathematical Statistics, Vol. 38, No. 5, October 1967.

#### RURAL DEVELOPMENT

## General

The Arda catalogue - April 1, 1966 to March 31, 1967.

Annual reports - ARDA, FRED and MMRA.

Partners in progress (1967).

Economic and social disadvantage in Canada (Set of nine maps).

Federal-provincial rural development agreement (1965-70).

An explanation of the federal-provincial rural development agreement 1965-70.

A guide to community pastures for eastern Canada. S.R. Burkell.

Mactaquac regional development plan summary report of New Brunswick.

A preliminary report of rural poverty in four selected areas.

Poverty: an annotated bibliography and references.

Northeast New Brunswick federal-provincial rural development agreement (1172).

The report of the eastern Canada farm survey 1963.

Variation in farm income of farms in eastern Ontario by farm types and farm class. F. Noble.

The sixties: what can ARDA do?

Social determinants of inter-community mobility: an inventory of findings.

The Canada land inventory of Arda and its significance to the forestry profession industry. R.J. McCormack.

Field manual: land capability classification for outdoor recreation, June 1967.

First Report and Review - Canadian Council on Rural Development 1968.

## Condensed Reports

- Condensed report (CR-No. 1) The Arda program in relation to recreation and tourism.
- Condensed report (CR-No. 2) Arda soil test appraisal.
- Condensed report (CR-No. 3) Roughland pasture assessment and improvement project.
- Condensed report (CR-No. 4) Feasibility study of centres for residential adult education in the Maritime Provinces.
- Condensed report (CR-No. 5) The blueberry industry: The role of Arda.
- Condensed report (CR-No. 6) Leadership patterns in a Manitoba agricultural-fishing community. L.B. Siemens and D.P. Forcese.
- Condensed report (CR-No. 7) Information media in the pilot region: Lower St. Lawrence, Gaspé and Iles-de-la-Madeleine. Jacques De Guise.
- Condensed report (CR-No. 8) Establishing new regional organizations (BAEQ). Guy Bourassa.
- Condensed report (CR-No. 9) Provincial administration in the pilot: Lower St. Lawrence, Gaspé and Iles-de-la-Madeleine. Vincent Lemieux and Yves Leclerc.
- Condensed report (CR-No. 10) Families and socio-economic changes (BAEQ). Jocelyne Valois and Denise Lemieux.
- Condensed report (CR-No. 11) An experiment in 'animation sociale' among the clergy of the pilot region (BAEQ). J.P. Montminy.
- Condensed report (CR-No. 12) Political parties in the pilot regions: Lower St. Lawrence, Gaspé and Iles-de-la Madeleine. Michel Chalout (BAEQ).
- Condensed report (CR-No. 13) Outstanding features of the inventory (BAEQ). Louise Duval.

# Canada Land Inventory

The Canada land inventory - report no. 1 1965 - Objectives scope and organization.

#### Canada Land Inventory Cont'd

- The Canada land inventory report no. 2 1965 Soil capability classification for agriculture.
- The Canada land inventory report no. 3 1966 The climates of Canada for agriculture.
- The Canada land inventory report no. 4 1967 Land capability classification for forestry.

## Reports and Digests

- Reports and digests January 1965 Wildlife and rural development.
- Reports and digests April 1966 Agriculture as a positive force in the growth process.

  The problem of low incomes in agriculture.

  Interrelationships between income and supply problems.
- Reports and digests July 1966 National rural manpower.
- Reports and digests 1966 The impact of urbanization in rural development areas.
- Reports and digests 1968 Regional planning for depressed rural areas The canadian experience.

# Research Reports

- The role of education in rural development. D.M. Connor and D.W. Magill. RE-1.
- The people of Manitoba 1951-1961. E.F. Sharp and G.A. Kristjanson. RE-2.
- Life and poverty in the Maritimes. Pierre-Yves Pépin. RE-3.

## Soil Capability for Agriculture

Soil capability for agriculture\*

The state of the s

Canso - 11F, G and C

Brandon - 62G

Bruce - 41A

East Port - 21B

## Soil Capability for Agriculture Cont'd

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Halifax - 11D

Kingston - 31C

Neepawa - 62J

Ottawa - 31G

Picton - 30N

Shelburne - 20P and O

Sydney - 11K and J

Willow Bunch Lake - 72H

Winnipeg - 62H

Weyburn - 62E

Yorkton - 62M

Erie - 40I

Huntsville - 31E

Lake Simcoe - 31D

Ogdensburg - 31B

Pembroke - 31F

Riding Mountain - 62K

Swift Current - 72J

Welland - 30C

Windsor - 40J and G

Virden - 62F

Wood Mountain - 72G

<sup>\*</sup> These maps are sold by the Queen's Printer in Ottawa at  $35\,\rlap/e$  each.

# PUBLICATIONS GÉNÉRALES ET ÉDUCATIVES

- Arbres indigènes du Canada (Bulletin 61). 3<sup>e</sup> édition, 1961. 289 p., illustrations, cartes. Guide pour l'identification des arbres. Descriptions, cartes des habitats et illustrations photographiques de 174 essences et variétés d'arbres. \$3.00
- Mise en valeur de la forêt. 1963. 72 p., illustrations, cartes. Texte et illustrations faisant ressortir l'importance de la protection et de la conservation des forêts ainsi que leur valeur économique. A la portée des classes d'enseignement secondaire.
- L'arbre et la forêt. 75 p., illustrations. Principes de base de la sylviculture. A la portée des classes d'enseignement primaire. A l'usage des instituteurs et des associations à caractère éducatif.
- Le Canada, pays forestier. (No. 1002F). 1963. 6 p. La forêt est à l'origine de l'industrie la plus importante du Canada. Renseignements sur la coupe des arbres; le nombre d'emplois dans l'industrie forestière; l'exportation des produits forestiers; l'administration des forêts; les écoles de génie forestier et de gardes forestiers, etc.
- La culture des arbres de Noël au Canada. Sous forme abrégée, renseignements sur les différents aspects de la culture et de la vente des arbres de Noël. (1041F)
- Rapports annuels du ministère des Forêts et du Développement rural.
- Exercices de conservation. 1965, 29 p. illustrations.

  Recueil d'exercices mis à la disposition des instituteurs et des moniteurs des mouvements de jeunes. Pouvant servir à des excursions et randonnées d'écoliers et de groupes tels que louveteaux, jeannettes, scouts et guides, et clubs 4-H.
- Produits tirés des bois canadiens. Tableau d'information nº 1, 1965. Pour usage dans les classes élémentaires.
- Six résineux de premier plan parmi nos bois canadiens de type commercial. Tableau d'information nº 2, 1967. Pour usage dans les classes élémentaires.
- Pour un arbre de Noël plus vert et plus sûr. 6 p. dépliant.

  Quelques conseils sur l'achat et l'entretien des arbres
  de Noël.

# <u>Publications Générales</u> et Éducatives (suite)

- Claude Boisvert sous la forme de bandes illustrées, cette publication traite des activités d'un chef forestier au Canada.
- Films canadiens sur les forêts et autres ressources renouvelables. 1965. Catalogue des films canadiens sur les forêts, les industries forestières et la conservation du sol et de l'eau.
- Carrières en perspective. 6 p. dépliant sur les possibilités d'emploi pour les spécialistes et les techniciens en foresterie, au ministère des Forêts et du Développement rural.

## SYLVICULTURE

- Plantage d'épinettes blanches en terrain mouilleux et broussailleux. J.W. McLeod. (1067F) 1964.
- Clef artificielle des types de station de la section des conifères du nord-est région de F. Boréales, Québec. A. Linteau et J. Boynton.
- Le lichen lecidea granulosa constitue un milieu favorable à la germination de l'épinette noire. J.-D. Gagnon, extrait du Naturaliste Canadien, Vol. 93, No. 2, mars-avril 1966. (Sep 236).
- Classification des stations forestières de la section des conifères du nord-est, région forestière boréale du Québec. A. Linteau. (Bulletinl18) 1959.
- Semis d'arbres de l'Est du Canada. T.C. Brayshaw. l'Imprimeur de la Reine. \$0.50. (Bulletin122) 1959.
- Croissance et développement des plantations de conifères de Grand'Mère, (Qué.) G.C. Cunningham. (S.R.N.103) 1957.
- Liste des arbres indigènes du Canada. 1957.
- Zone argileuse du nord. Etude sur la croissance et le rendement des forêts. D.W. MacLean et G.H.D. Bedell. (MT20) 1959.
- Types de stations, croissance et rendement dans la forêt expérimentale du Lac Edouard, Québec. R.G. Ray. (MT27) 1958.

## Sylviculture (suite)

- Reproduction du sapin baumier et de l'épinette blanche dans le bassin hydrographique de la rivière Verte. A.B. Vincent. (MT40) 1959.
- Aspect écologique de la sylviculture des feuillus tolérants. J.M. Jarvis. (MT43) 1959.
- Le gel d'été et ses effets sur une plantation de conifères. René Pomerleau et R.G. Ray. (MT51) 1959.
- Régénération du bouleau jaune, coupe et préparation du terrain de germination, comté d'Haliburton, Ontario. J.M. Jarvis. (MT53) 1959.
- Reproduction de l'épinette noire des conditions édaphiques perturbées. A. Linteau. (MT54) 1959.
- Effets de l'engrais sur une plantation d'épinette blanches et d'épinettes de Norvège, située à Grand'Mère, Québec. J.D. MacArthur. (MT64) 1959.
- Les herbicides et leurs usages en sylviculture dans l'est du Canada. R.F. Sutton. (MT68) 1960.
- La végétation forestière comme indice de la qualité des stations dans les plantations d'épinettes blanches. J.D. Gagnon et J.D. MacArthur. (MT70) 1959.
- Application de la méthode d'aménagement par jardinage périodique dans une forêt de sapins, d'épinettes et de bouleaux. G.L. Baskerville. (MT86) 1961.
- Croissance du sapin baumier après une coupe rase dans le Québec. R.J. Hatcher. (MT87) 1960.
- Ecologie du pin blanc et du pin rouge dans la région forestière des Grands lacs et du Saint-Laurent. K.W. Horton et W.G.E. Brown. (MT88) 1960.
- Reprise de jeunes sapins et épinettes après dégagement de la concurrence des arbustes nains. G.L. Baskerville. (MT98) 1961.
- Croissance de jeunes sapins baumiers après dégagement des cimes. G.L. Baskerville. (MT101) 1961.
- L'aménagement des boisés de ferme. A. Bickerstaff. (1000F).

## Sylviculture (suite)

Carte phytosociologique et forestière de la forêt expérimentale de Montmorency. Michel Jurdant. (1046F).

La culture des arbres au Canada. 1966. (1041).

Etude écologique de la forêt de Watopeka. M. Jurdant et M.R. Roberge. (1051F).

Plantation d'arbres de Noël. J.W. McLeod, 1964. (1083F).

## INVENTAIRES FORESTIERS

Méthode d'inventaire forestier. H.E. Seely. 1958. 8

Etudes de méthodes d'échantillonage en forêt. H.E. Seely. 1963. 111

Inventaires forestiers au Canada. H.E. Seely. 1959.

Une évaluation de relascope. R.H. Kendall et L. Sayn-Wittgenstein. 1092F.

Identification des essences forestières au moyen de photographies aériennes d'après les caractéristiques des cimes. L. Sayn-Wittgenstein. 1118F.

# <u>ÉCONOMIE</u>

Les forêts du Canada. Dépliant annuel sur l'économie forestière. Tableaux graphiques. Données statistiques fondamentales. 1964.

# PUBLICATIONS DIVERSES

Liste des arbres indigènes du Canada. 1957.

Recherche fédérale sur les forêts - Les Maritimes. 1966.

# ENTOMOLOGIE FORESTIÈRE

Rapports annuels de la direction de l'entomologie et de la pathologie forestières. Laboratoire d'Entomologie et de Pathologie forestières, Québec, (Qué).

# Entomologie Forestière (suite)

- Comparaison de toxicité de quelques éléments pour Bacillus Thuringiensis Var. Thuringiensis Berl. J.M. Perron, W.A. Smirnoff et L. Huot. Canadian Journal of Microbiology. Volume 13, (1967).
- Toxicité comparée des éléments Al, As, B, Co, Cu, F, Fe, I, Li, Mg, Mo, Zn, pour Plodia Interpunctella (HBN.) (Lépidoptère) J.M. Perron, L. Huot et W.A. Smirnoff. Comparative Biochemistry and Physiology, Volume 18, p. 869-879 (1966).
- Une nouvelle espèce d'Acarien (Tarsocheylidae : Prostigmata) du Sud-Est du Canada. Acarologia, Tome VIII, Fasc. 1, 1966. V.G. Marshall.
- Fréquence et intensité du chancre Cytosporéen dans les plantations d'épinette du Québec. G.B. Ouellette, J.M. Conway et G. Bard. Forestry Chronicle, Décembre 1965, Vol. 41, No. 4.
- Description de la larve du <u>Melanophila acuminata</u> DeGeer et de quelques caractères distinctifs du <u>Melanophila Fulvo-quttata</u> (Harris) Coleoptera: Buprestidae). Paul Benoit. The Canadian Entomologist, Volume 98, No. 11, Novembre 1966.

# PATHOLOGIE FORESTIÈRE

- Rapports annuels de la direction de l'entomologie et de la pathologie forestières. Laboratoire d'Entomologie et de Pathologie forestières, Québec, (Qué.).
- Modes d'entrée des caries du tronc de l'épinette noire. André Lavallée. Extrait de Phytoprotection 46(4): 163-168, Septembre 1965.
- Recherches sur la résistance de l'orme d'Amérique <u>au Ceratocystis</u> <u>ulmi</u>. Charles-Eugène Ouellett et René Pomerleau. Canadian Journal of Botany, Volume 43, (1965).
- La maladie hollandaise de l'orme. (1187F).

# FEUX DE FORÊT

Estimation de la gravité des saisons de feux. D.E. Williams. 1959. (73).

## Feux de Forêt (suite)

Caractéristiques des pompes à dos utilisées pour la suppression des feux de forêt. J.S. Mactavish. 1960. (85).

Une nouvelle plieuse à boyaux de feu de forêt. J.C. Macleod. 1960. (91).

Inflammabilité des arbres de Noël. C.E. Van Wagner. (1034F).

## Précis de répression des feux de forêt.

#### Livre 2

Volume VII numéro 1 et 2. (1956)

Volume VIII numéro 1 et 2. (1957)

Volume IX numéro 1 et 2. (1958)

Volume X numéro 1 et 2. (1959)

Volume XI numéro 1 et 2. (1960)

Volume XII numéro 1 et 2. (1961)

# Livre 3

Volume XIII numéro 1 et 2. (1962)

Volume XIV numéro 1 et 2. (1963)

Volume XV numéro 1, 2, 3 et 4. (1964)

Volume XVI numéro 1, 2, 3 et 4. (1965)

Index cumulatif Volume 13 et 14. Tome III.

Pertes dues aux feux de forêt au Canada. 1966. D.L. MacLean et M.R. Lockman. 1967.

## RECHERCHES SUR LES PRODUITS FORESTIERS

## Anatomie du bois

Le fendillement de surface des panneaux plaqués. C.T. Keith. (1096F), 1965. - (0).

## Anatomie du bois (suite)

La structure du bois. J.D. Hale. Article (P-22), 1963. (Reproduction d'un article publié dans "Forêt Conservation") - (0).

## Collage du bois

- Défaillances des joints collés, leurs causes, leur prévention. E.G. Bergin, publication no. 1184F du ministère (1967).
- Propriétés intéressantes des colles à prise par contact. E.G. Bergin and V. Godin. (Reproduction d'un article publié dans "Forêt Conservation", avril 1965)- (0).
- Les colles du bois. R.W. Peterson. Publication du ministère des Forêts no. 1055F (1965) (0).
- Effet du coefficient d'humidité du bois sur le collage. E.G. Bergin. Mémoire technique no. 12F (1960) (0).
- Le choix des colles. E.G. Bergin. (Traduction d'un article du Canadian Woodworker, 1958) (0).

## Utilisation des déchêts

- Manutention et transport des copeaux de scierie dans l'est du Canada. I.B. Flann (Extrait de Opérations Forestières et de Scierie, 1967 - (0).
- Certains facteurs de conversion et renseignements connexes à l'intention des industries forestières de l'est du Canada. I.B. Flann. (1070F), 1964 - (0).
- Aspects économiques de l'écorcage et de la fabrication de copeaux. I.B. Flann. (Reproduction d'un article publié dans Forêt Conservation, 1963) (0).
- Centrale de conversion des résidus de sciage en copeaux à pâte chimique. I.B. Flann et M. Cantin. (Reproduction d'un article publié dans "Forêt Conservation", mars 1963) (0).
- Production, fabrication et transport des copeaux à pâte provenant de rebuts de sciage dans l'est du Canada. J.A. Doyle et I.B. Flann.

## Utilisation des déchêts (suite)

- Aperçu du matériel d'écorçage et de mise en copeaux disponible dans l'est du Canada. I.B. Flann et M. Cantin. (Reproduction d'un article publié dans "Forêt Conservation, 1962) (0).
- La production du charbon de bois au Canada. M. Cantin. (Reproduction d'un article publié dans Forêt Conservation, 1961) - (0).
- Les déchets de coupe dans l'est du Canada. J.A. Doyle. Bull. No. 115 (1957) (0).
- Utilisation de la sciure de bois comme combustible dans l'est du Canada. (Bull. 101) 1956 (0).

#### Séchage du bois

- Le séchage du bois. R.S. Millett. (20F), 1963 (0).
- Le séchage artificiel à haute température des bois résineux de l'est du Canada. J.L. Ladell. Mémoire technique No. 2 (1958) (0).
- Séchage du bouleau jaune à haute température. J.L. Ladell. (Traduction d'un article de Forest Products Journal, 1956) (0).
- Le séchage à l'air libre des bois d'oeuvre. Bulletin polycopié 143, Sept. 1949. R.S. Millett. (0).

# Exploitation forestière et production de bois d'oeuvre

- Influence de la méthode délignage sur le rendement. I.B. Flann, F.M. Lamb et R.W. Neilson. (Tiré à part de Opérations Forestières et de Scierie, 1968) (0).
- Méthode de délignage et son influence sur la valeur des sciages d'érable à sucre. I.B. Flann et F.M. Lamb. (Extrait de Opérations Forestières et de Scierie, 1967) - (0).
- Le rendement en bois de sciage d'une exploitation de pin gris par troncs entiers. I.B. Flann et F.J. Petro. (Extrait de Opérations Forestières et de Sciage, 1967) - (0).

## Exploitation forestière et production de bois d'oeuvre (suite)

- Exploitation forestière classique ou mécanisée? Une occasion de profits. W.E. McCraw. (Extrait de Opérations Forestières et de Scierie, 1967) (0).
- Comment coordonner les opérations de chargement et de charroyage. W.E. McCraw. (Reproduction d'un article publié dans Forêt Conservation, 1965) - (0).
- Rendement comparé des tracteurs sur roues et à chenilles en exploitation forestière. W.E. McCraw. Publication du ministère des Forêts no. 1116F (1965) (0).
- Le surrendement et son importance. W.W. Calvert. (Reproduction d'un article dans Forêt Conservation, 1965) (0).
- Chemins forestiers et frais de camionnage. W.E. McCraw. (Reproduction d'un article publié dans Forêt Conservation, 1964) - (0).
- Le classement des billes de sciage de bois franc. W.W. Calvert. (192F, 1963) (0).
- La classification des billes de bois franc destinées à la transformation en bois d'oeuvre. F.J. Petro. Mémoire technique no. 34F, 1962) (0).
- Tolérances applicables à la fabrication du bois d'oeuvre. G.W. Andrews et T.F. Imada. Publication du ministère des Forêts no. 1040F, 1962. (0).
- Le tronçonnement judicieux accroît les bénéfices. F.J. Petro. Traduction d'un article du Canada Lumberman, 1961. - (0).
- La scie à billon, son emploi dans la transformation des bois canadiens. W.W. Calvert. Mémoire technique no. 10F (1960) (0).
- La scie principale. G.W. Andrews. Traduction d'un article tiré de Timber of Canada, 1958 (0).

## Placages et contreplaqués

Le pin rouge de plantation essence pour placages et contreplaqués. O. Feihl et V. Godin. Publication no. 1178F du ministère des Forêts. 1967 - (0).

## Placages et contreplaqués (suite)

- Placages mince. O. Feihl et V. Godin. Reproduction d'un article publié dans Forêt Conservation, 1964 (0).
- Placage et contre-plaqué de peuplier faux-tremble. O. Feihl et V. Godin. Reproduction d'un article publié dans Forêt Conservation, 1964 - (0).
- Placage et contre-plaqués matériaux à parquets. M. Cantin. (18F, 1963) Reproduction d'un article publié dans Forêt Conservation, octobre 1963 (0).

## Préservation du bois

- Traitements des poteaux de clôture faits d'essences peu durables, au moyen de préservatifs en milieu aqueux par la méthode de l'imprégnation de la base. J. Krzyzewski. Mémoire technique no. 0-174F des L.P.F., 1958 - (0).
- Le traitement préservateur des poteaux de clôture par des procédés sans pression. M.J. Colleary. Bull. 107, 1956 (0).
- Les préservatifs du bois et leur application. (178F), 1955.

#### Divers

- Historique du marquage de la qualité du bois de construction au Canada. J.H. Jenkins. Direction générale des forêts, 1967. (1134F) - (0).
- Le baume du Canada Sa préparation et ses emplois. F. Bender. (1182F), 1967 (0).
- L'importance des normes nationales pour les industries des produits forestiers. J.H. Jenkins. (1115F), 1965 (0).
- Le marquage de la qualité du bois de construction du Canada. J.H. Jenkins. (187F), avril 1962 - (0).
- L'avenir du bois d'oeuvre. J.H. Jenkins. Traduction d'un article de Timber of Canada, 1962 (0).
- Revue des modes d'utilisation des forêts du Canada. J.H. Jenkins. 1958. (0).

## Divers (suite)

La solidité des boîtes de beurre et de fromage renforcées et non renforcées. G.H. Rochester. (24F), 1929 - (0).

Recherches sur les produits de la forêt (tirage à part d'articles mensuels publié dans Forêt Conservation) -

Numéro 1 (mars 1961) Numéro 2 (avril-septembre 1962) Numéro 3 (octobre-décembre 1962) Numéro 4 (janvier-juin 1963) Numéro 5 (juillet-décembre 1963) Numéro 6 (ianvier-juin 1964) Numéro 7 (juillet-décembre 1964) Numéro 8 (janvier-juin 1965) Numéro 9 (juillet-décembre 1965) Numéro 10 (janvier-juin 1966) Numéro 11 (novembre-décembre 1966) Numéro 12 (novembre-décembre 1966) (ianvier-mars 1967) Numéro 13 Numéro 14 (avril-juin 1967) Numéro 15 (juillet-septembre 1967) Numéro 16 (octobre-décembre 1967)

# DEVELOPPEMENT RURAL

# Information générale

Convention fédérale-provinciale sur le redressement économique des régions rurales 1965-70.

## Information générale (suite)

Explication de la convention fédérale-provinciale sur le redressement économique des régions rurales 1965-70.

Désavantage économique et social au Canada. (jeu de neuf cartes)

Un rapport préliminaire sur la pauvreté rurale dans quatre régions choisies.

Rapports annuels du développement rural: ARDA, MMRA, et FRED.

Les fermes de l'Est du Canada. 1963.

Répertoire des travaux ARDA, ler avril 1966 - 31 mars 1967.

Région du nord-est du Nouveau-Brunswick, entente fédéraleprovinciale sur le développement rural. (1172F)

Région d'Interlake au Manitoba - entente fédérale-provinciale sur le développement rural - 1967.

Partenaires dans le progrès. 1967.

## Rapports et Abrégés

Adaptabilité de la main-d'oeuvre et croissance économique de la ferme à l'usine, novembre 1963.

Projets et recherche en vertu de l'Arda: aménagement rural, rotation des terres, pâturages communautaires, conservation des sols et des eaux, juin 1964.

Faune et aménagement rural, janvier 1965.

Le rôle positif de l'agriculture dans le processus de la croissance économique, avril 1966.

La main-d'oeuvre rurale nationale, juillet 1966.

Les répercussions de l'urbanisation dans les régions rurales. 1966.

# Rapports-Abrégés

Etude du programme Arda en fonction de la récréation et du tourisme. W.M. Baker. (RA-No. 1).

Appréciation du service d'analyse des sols. J.A. Toogood et G.H. Anderson, (RA-No. 2).

## Rapports-Abrégés (suite)

- Etude et méthodes d'amélioration des pâturages naturels.
  J.E. Winch et L. Collins. (RA-No. 3).
- Etude sur les possibilités d'aménagement de centres de formation en internat pour adultes dans les Maritimes. Donald F. Maclean et Thomas M. Jones. (RA-No. 4).
- Apport de l'Arda à l'industrie du bleuet. (RA-No. 5).
- Le leadership dans une collectivité d'agriculteurs-pêcheurs du Manitoba. L.B. Siemens et D.P. Forcese. (RA-No. 6).
- La mise en place de nouvelles structures régionales, (BAEQ). Guy Bourassa. (RA-No. 8).
- Familles et changements socio-économiques, (BAEQ). Jocelyne Valois et Denise Lemieux. (RA-No. 10).
- Une expérience d'animation sociale auprès du clergé, (BAEQ). J.P. Montminy. (RA-No. 11).
- Les partis politiques dans le territoire pilote BAEQ. Michel Chalout. (RA-No. 12).
- Faits saillants de l'inventaire, (BAEQ). Louise Duval. (RA-No. 13).

# Rapports de recherches

- L'instruction et le développement rural. D.M. Connor et D.W. Magill. (RF-1).
- La population du Manitoba, 1951-1961. E.F. Sharp et G.A. Kristjanson. (RF-2).
- Milieux, genres de vie ruraux et pauvreté dans les Maritimes. Pierre-Yves Pépin. (RF-3).

# Inventaire des terres

- Rapport No. 1 Objectifs, portée et organisation.
- Rapport No. 2 Classification des sols selon leurs aptitudes à la production agricole.

#### POSSIBILITES AGRICOLES DES SOLS

Possibilités agricoles des sols - Inventaire des terres du Canada\* Swift Current - 72J

Brandon - 62G Pembroke - 31F

Bruce - 41A Picton - 30N

Canso - 11F, G et C Riding Mountain - 62K

East Port - 21B Shelburne - 20P et O

Edmonton - 83H Sydney - 11K et J

Erie - 40I Welland - 30C

Halifax - 11D Willow Bunch Lake - 72H

Huntsville - 31E Windsor - 40J et G

Kingston - 31C Winnipeg - 62H

Lake Simcoe - 31D Virden - 62F

Neepawa - 62J Weyburn - 62E

Ogdensburg - 31B Wood Mountain - 72G

Ottawa - 31G Yorkton - 62M

\* Ces cartes sont en vente chez l'Imprimeur de la Reine moyennant 35¢ l'exemplaire.

